

This Old House

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FARMHOUSE



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Year

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1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

Author's address:

APPENDIX

511529

Keywords: social support; coping strategies; self-esteem

NOTES

KLEINMAN ET AL.

Coyotes aside, it's a safe bet that if you own a Jorg Cherokee Sport you'll get a really good night's sleep. After all, Cherokee Sport is a four-wheeled vehicle with an affordable price tag. And just about everything else one could possibly want or need in a vehicle of its kind.

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Pink pigs, a stylish
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P. 107

Wind Instruments

features

Bulling on Tradition

The fall TV project in Billerica, Massachusetts, takes shape—Waterman winds, info-spy mode. By BRAD LINDLEY

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Treescaping

When it comes to trees, placing the right species in the right spot defines and protects a property. By CURTIS ROSE

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Back Together Again

A fire in an 18th-century farmhouse gives its owner a chance to restore more than his home. By JILL LO LINDLEY

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Dream House: Fitting Trim

For homes that age with style, hardwood, crown, and other moldings supply the grace notes. By BRAD LINDLEY

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The Charge of the Tool-Belt Brigade

The Old House and a team of community volunteers combined to New England Colonial. By JENNIFER SPENCER

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Splendor in the Grass

In the land of dappled roofs, a thatcher finds a welcome make to practice his Old World craft. By JIM HENNINGSEN

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Poster: Window Dressers

Slingshaws, ladders, hanks, and lifts dress up simple scenes, making the view all the more pleasing. By DEBBIE JOHNSON

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LEFT: LINDSEY P. 130



LEFT: LINDSEY P. 130



RIGHT: LINDSEY P. 131

cover

Behind their recently restored Ipswich, Massachusetts, farmhouse, Charles "Chuck" Whitson and Jane Alston give their "Lived-In" White House a well-earned glow. The circa-1750 estate was a hard nut shell this year. TO SEE more on this project, visit www.1750.org. See "Back Together Again," p. 98. PHOTOGRAPH BY MICHAEL SCHWARTZ

(Continued on page 52)

dinner for 37, chez marcella: \$2,416

one happy 50th birthday card: \$1.95

one leopard-print, peekaboo nightie: \$45

still being able to make her blush:

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for everything else there's MasterCard.



"I would never replace an old column if I could repair it."

—Norm Abram

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HOME OFFICE SOLUTION, P. 61



MARK BOWEN, P. 66

PHOTO: © MICHAEL TONER FOR THE NEW YORK TIMES; PHOTO: © JENNIFER BLUM WAGGONER

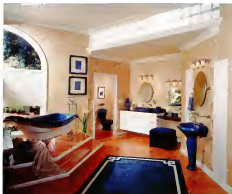
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Lynette Jennings



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Sustainable Species
I enjoyed Bird
Linden's article
"Diversity: Habitat
Favorts Wood,"
January/February
1998. As an inter-
ior woodworker
and forest dweller

in the heart of Black Cherry country, I share
Homer's perspective. Furniture maker Thomas
Moser expresses his concerns for the devel-
opment of Black cherry. An Idaho woods out-
let, his last cherry cabinet from the Adirondack
Park State Natural Forest, Pennsylvania. The
Adirondack National Forest manages 112,000
acres of this resource. The Pennsylvania
Bureau of Forestry and the Pennsylvania
Game Commission also manage many thou-
sands of acres on the plateau. All three agencies
employ professional foresters to protect
multiple-use, sustainable forestry. Manage-
ment by these organizations have produced
healthy, vibrant, productive ecosystems.

There forests now support a vast diversity of
tree species and tree-still species, as well as a
diverse array of wildlife species. In 1987, the
Adirondack National Forest reported timber was
harvested from 4.5% acres. That is only 3%
percent of the Adirondack National Forest Land.
This heavily suggests overharvesting of the
resource.

Russell D. Buckner, Ph.D.

Pennington Forestry Services, Russell, Pa.

Cleaner Home

I was pleasantly surprised to read "A Stroll
Through Madison Heights" (June 1998). My
wife and I moved to within a stone's throw of
Madison Heights last September and love
our 1938 "modern" house, which sits on a tree
less lot above street level. I in an odd corner
of this Old House and have volunteered to
your magazine for two years. The show and
colours have made the apparently odd
house and neighborhood, a welcome to all
invited and to become a pretty handy house
improvement guy.

John Casanova, Forest Hills, Ga.

Who's in a Home

Regarding the struggle to welcome Tom
Sine, I "love" the "Outlets, April 1998, I
agree with your final suggestion. "Because
every year is a birthday dinner at this Old
House, I have always been lost at the an-
nual family old stuff, so "buffs" item"
seems very apt.

Steve Niles, Dallas, Texas, Pa.

punch list

includes a list of items recently done or needed to be
done in a construction job.

• In "Bringing the House" on page 66, the "Where
to Buy" column did not mention various
resources through Atlanta's corporate
expansion department, providing information
through the Atlanta Office, Atlanta, Ga., 30333
Atlanta, Ga., 30333 333 333 333, www.atlantacity.
Ga./atlantacity.com

• The article "The House" on page 66, the "Where
to Buy" column did not mention various
resources through Atlanta's corporate
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The Carey Brothers Look at Home Innovations for Better Living



Half the fun and challenge of remodeling or updating your home is
discovering how much the new technological
products have evolved since your original
installations. New innovations have re-
sulted in household items like plumbing
fixtures, cabinets and carpet - making
them more sophisticated and providing you
with an even greater sense of joy living.

Watch for the following products during your next
remodeling project:

Trim out the rubber duck. In layman's terms, install
telescopic and VCR fixtures on your shower or tub
to make the bathroom your personal movie theater.

Pushing clothes less space. Look on open racks and more than
enough space for your garments before it becomes a juggling act in
your home closet.

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long-lasting. All DuPont STAINMASTER



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About the Carey Brothers

Marvin and James Carey are Pittsburgh contractors and
household personalities. They run the award-winning
remodeling business since 1976 and are active in the
community and live on the Internet at
www.careybros.com.

For more information, see
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at www.dupont.com/stainmaster



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Sometimes, the further we go from civilization,

the more civilized we become.



OUTTAKES



BEHIND THE SCENES AT THIS OLD HOUSE



An old-fashioned shop-house can house, Dick Silva says, his late-1931 Ford Model A Roadster as well as a friend's restored 1932 Model A Sedan (left).

THE FIRE THAT RIPPED THROUGH DICK SILVA'S HOME IN BILLERICA, MASSACHUSETTS, DESTROYED VIRTUALLY ALL OF HIS POSSESSIONS, BUT THE MOST PRIZED ONE ESCAPED DAMAGE: HIS LOVINGLY RESTORED LATE-1931 MODEL A ROADSTER, WHICH WAS Housed IN A DETACHED GARAGE. A CAR BUFF SINCE CHILDHOOD, DICK SPENT A YEAR REBUILDING THE OLD FORD FROM THE CHASSIS UP. "NOW

A SPARE IN BACK

I'M JUST WAITING FOR THE WIND WINDOWS TO COME IN. I'M HAVING THEM ETCHED WITH BUTTERFLIES AND LADYBUGS," HE SAYS. HE'D PLANNED TO DRIVE THE FOUR-CYLINDER, 48-HORSEPOWER CLASSIC TO CAR SHOWS OVER THE SUMMER, BUT BUILDING HIS NEW HOME—THIS OLD HOUSE'S FALL TELEVISION PROJECT (SEE STORY, P. 62)—TOOK PRECEDENCE. IN THE MEANTIME, HE'S GLAD TO HAVE AT LEAST ONE MATERIAL LINK TO HIS PAST: "I LIKE TO JUST COME OUT HERE AND LOOK AT IT,"



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Yeah, yeah, whatever.

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OUTTAKES



Joseph and Laurie Chen have expanded the porch of the The Old House house—as it's known around New Orleans—as the renovation moves it into '91.

EVERYONE LOVED THE NEW MULBERRY COLOR OF THE MASTER BEDROOM IN THIS OLD HOUSE'S NEW ORLEANS PROJECT HOUSE—EVERYONE, IT TURNS OUT, EXCEPT THE HOME OWNERS. IN 1991, SHORTLY AFTER THE SHOW DECAPED FROM THE SHOTGUN-STYLE HOUSE, ELVIS AND JEAN GOLDEN COVERED THE ROOM IN NAVY BLUE FLORAL WALLPAPER.

MUCH UNDO ABOUT N'AWLINS

WHEN SUBSEQUENT OWNERS MICHAEL AND JANET JAMES BOUGHT THE PROPERTY, THEY STRIPPED THE WALLPAPER, AND MADE THE ROOM SALMON COLORED. THE FRONT PORCH, PAINTED MAUVE DURING THE RENOVATION, ALSO RUBBED THE JAMESERS THE WRONG WAY, SO THEY REDID IT IN STEEL GRAY. THEN, IN THE FALL OF 1997, LAURIE AND JONATHAN CHRESS MOVED IN AND PUT AN END TO ALL THE NEEDLING. AVID T.O.H. WATCHERS, THEY HAD FALLEN IN LOVE WITH THE HOUSE—BUT ONLY AS IT WAS RECORDED FOR POSTERITY ON TELEVISION. "WE'RE DETERMINED TO RESTORE EVERYTHING TO THE WAY THE SHOW LEFT IT," SAYS LAURIE. "WE CONSTANTLY WATCH OLD EPISODES FOR POINTERS."

THE MERRY FRANKSTERS

Ross March was filming *The Idea* when shooting a film for the renovation project house was at a standstill, and the light was fading for The Old House production coordinator Sara Kowalsky's car was blocking the driveway, and the couple's pet is in trouble. "Come, here, come, here! We need to clear this space for the next scene!" roared Ross. Sara Thomas offered to help the frustrated film, as she stepped out and drove her car. That's when she noticed her front tires were spinning in place because the frame was propped up on cinder blocks. "Gosh!" shouted the crew, and Sara commanded a swift clean, deep crimson West. Deep down, however, she was relieved. "It's a tradition to 'get' the production assistant," says Sara, who held that title for a year before her April promotion. "They've been working me and knowing me. It's good to have it over with. Since I got into part of the club."



1991: Sara Kowalsky digs a trench around the wheels of Sara Kowalsky's car to remove Ross March's car. Ross March's car was blocking the driveway.



PHOTOS: MICHAEL CHEN; VIDEO: MICHAEL CHEN

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DOUBLE TROUBLE



Steve discovers his Doppelgänger in Ken Hughes

YOU SEE HIS LICENSE PLATE? STEVE STAMMERED WHEN HE CAUGHT SIGHT OF KEN'S CAR. "IT SAYS UMN ROH!" WAS THIS SOME WEIRD HOMAGE TO THE HOST OF T.O.H.—OR A CHALLENGE TO HIS GRASS-GOD ALTER EGO? NEITHER, IT TURNS OUT. "I'VE BEEN CALLED 'LAWN BOY' SINCE I WAS A KID CUTTING YARDS FOR SPENDING MONEY," EXPLAINS KEN, OWNER OF A LANDSCAPING BUSINESS. "I DON'T MIND SHARING A NICKNAME WITH STEVE IF HE DOESN'T."

THE SHOOTER

Videography: *The Old House* flies a strong back, singbird, and a four-track brain. "I've got director Russ Monda talking into my left earpiece, the show reader in my right ear, and the video operator in my right eye," says cameraman Steven "Dino" DiCesidio. "And my left eye is watching my foot so I don't trip." The grass-is-challenge, however, is following the action seamlessly—from wide shot to close-up—with a handheld camera that weighs 27 pounds. "I love that the camera is part of the conversation," says Dino, 38, who joined the crew in January after a freelance videography career. He never fears that his subjects are ploppers, dunces, and down-falls, whose best public performance might have been as a trio in their eighth grade play. "It's easy for people to be overwhelmed by Mr. Big Camera in their face," he says. "I always say, 'Just talk with Steve and ignore me.'"



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ASK NORM

Solving problems with siding, moldy closets, and wet basements

ANTENNA CALAMITY

Our house is plagued by a large, ugly TV antenna that crip with and I don't need because we're cable subscribers. Does the thing at least offer any some protection by serving as a lightning rod? (It did rise from the antenna to a ground only assuming I don't tell off the rod, is it safe for me to remove the antenna?)

Michael A. SULLIVAN, KENNESHA, Mo.

Assuming you don't fall off the roof! Michael, please don't remove any such thing (and I'm sure your wife agrees with me). Call in pros for the job, the experts who take antennas down are the same people who put them up, so check the Yellow Pages. If the arrival of cable has put the antenna guys out of business, try construction or demolition contractors. They'll have the skills, the gear, and, most important, the insurance for the job just make sure they do a thorough job of sealing every mounting hole, sealing up those for the guy wires. And don't count on getting any lightning protection from an antenna. Rich Kitchel, director of the National Lightning Safety Institute, says that that's a strong likelihood that even a disconnected antenna will lead lightning to your electrical system. He recommends removing the antenna and using surge protectors to safeguard expensive household appliances against lightning. Put one at the main circuit-breaker panel, one at each secondary panel, and, for good measure, one plug-in model at each TV, computer, and stereo system. These protectors are read as jolts, the more jolts, the better the protection.



WATERLOGGED

My husband and my father built a big house from a kit in 1986, neither knew we've had a lot of problems related to dampness, especially when the temperature falls below 40 degrees. We got mold sealant on our outside walls and in our closets and cabinets. If furniture is up against a wall, we get mold there, too. Many of our closets have been ruined and our windows are rotting. I've known others with big houses from the same company who have similar troubles, but the company has gone out of business. Do you have any suggestions?

ERIN A. SIMS, MAHON, N.Y.

I guess we know why that company isn't in business anymore. It's possible the logs were green (not seasoned enough) when you built the house, but even green logs dry out eventually. Maybe moisture is getting into the house from another source, such as a damp basement or crawl space. Putting splash blocks under down spouts and grading the land next to the foundation will

divert rainwater away from the foundation. If you have a block foundation, a coat of cementitious paint will help slow water seepage. Turn off basement if you're using any, then make sure other sources of moisture, like dryers, stoves, and bath rooms, are well-vented. Richard Winkley tells me that the ultimate solution may be a heat recovery ventilator, which is used in the winter to bring in dry outside air and exhaust moist inside air with minimal heat loss. They are expensive and require ductwork, but given the extent of your problem, such a device may be worthwhile.

UNFIT BORCH

In the course of renovating our 1990 farmhouse, we have found many non-standard construction methods. The carpeting has been our best guess. About two-thirds of it is over our basement and the rest goes beyond the house down well. This carpeting has been torn out and not, but into water into the basement. We plan to replace the rotted porch floor with pressure-treated tongue-and-groove plywood coated with rubber roofing, the floor would be topped with pressure-treated tongue-and-groove boards. What do you think? Max and Tracy Brown, Orono, Me.

I've heard of some strange porches, but yours is a new one on me. It's as if your house was put on a foundation that was too big. The problem with your idea is that the "rubber" roofing, called EPDM, won't keep out water once you've nailed or screwed down the floor boards. There may be ways to get around this, but the simpler solution, it seems to me, is to go down into the basement and build a concrete block wall where the foundation should have been all along, underneath the front of the house. You'll have to waterproof the wall's outside face and dump clean, drainable fill into the space between the new foundation and the old one, but when it's all done, you can leave your porch as is and stop worrying about heat loss or water infiltration.

MYSTERY MUCK

After we stripped the wallpaper in our three 20-year-old bathrooms, we removed the glue, washed the walls, and applied two coats of oil-based paint followed by two coats of latex enamel. Two of our bathrooms are fine, but the third shows a mysterious substance that runs down the wall every time we take a shower. It's yellow-white like the one up, though it's easily removed with a little scrubbing. What's up?

Kate Scott and Marc Decker, Great Harlow, Mass.

The first thing I thought of when I read your letter was The Absorbent Horses. Then I thought to check out the Web site of

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ASK NORM



Floor joist

the Four Quality Lumber, and sure enough, there was the answer. The "one day" you describe is probably the construction (but not the use) based on all four points. These chemicals sometimes leak to the surface where moisture condenses on the paint, which happens when you take a shower. They say the stuff is harmless, just wipe it away with a wet cloth. If it comes back later, wipe it some more. After a few more scrub-downs, it should be gone for good. To avoid this problem for next time you paint, wait a couple of days for it to dry before taking a shower.

FIXING WITH PLANK

We want to strip the aluminum siding from our 1860s single-story house. I took some off a long, covered porch a few years ago and found the planks beneath it to be in excellent condition. How do you want to keep going? The original builder's drawings show floor joists where the ground-

floor walls meet the foundation, and over the porch and second-floor windows. We suspect the siding men may have removed this metal to make it easier to hang the aluminum. Is it reasonable to refinish it?

THOM SCORRONE, TORONTO, ONT.

Yes, and you'll be recovering a beautiful layer (see illustration) that was thoughtlessly destroyed. The kind of work it takes, but it's not expensive or especially difficult. Any shingle work is left should be able to do it, and fortunately, you have the drawings to help him get it right. The work will show nicely, right where the whole neighborhood can admire it. Can't beat that.

SEEPING CELLAR

I am renovating an 1860s log cabin and one alleged because I get water seepage through the stone block foundation every time it rains. Are there products I can use to seal the blocks?

MICHAEL J. BERRY, MILWAUKEE, WIS.

Yes, you can seal the blocks, but doing it from the outside is the only way I know to stop anything beyond minor seepage, and that means major excavation work. I'd check for drainage problems first. Are the gutters and leader pipes doing a good job of carrying water away? Is the soil around the house graded to divert water? If you correct those problems, you should solve an improvement. Guess, admittedly, don't go very well with a log cabin, so you might consider a solution we've used on the three several times. On the ground under the eaves, dig a trench that slopes to a spot at least 20 feet from the house and lay it with landscaping fabric, which filters out dirt but lets water through. Then lay down a perforated drainage pipe, hole facing down. Cover it with washed stone, more fabric, and fill the trench with stone. The professional

pipe will collect water and carry it away before it soaks into the ground and your foundation.

KEEPS TO A NEW STOOD

I'd like to add a shingle to my house using an Early American or Colonial design. Any suggestions?

RUSSELL S. BROWN, GLOUCESTER, MASS.

There are architectural-history books you can look through that cover period styles in your detail, start by checking the books at your library. You might also get some ideas by driving through districts with old, well-maintained houses (that's what I did when I was looking for paint colors for my house).

SAVING OLD BARK BOARD

After watching poor shows, I know people sometimes use lumber from old buildings. Well, I've got plenty of my own here taken apart, and I want to get rid of the old boards. How do I find people who'll want them?

DAVID KILLAMORE, WINDLE

Reclaimed lumber dealers may buy it, but don't expect to finance a vacation that way. It might be better to give the wood away on condition that they take it all (you don't want them taking the best and leaving you with a mess). If the boards have already been pulled

off, putting them on neighborhood bulletin boards should help you find buyers for them. Or try a sign, "Barn Boards For Sale."



IPSY BRICK

We want to improve handicapped access to our church (built) by adding a walkway made with some of the church's old handmade floor bricks. But they date from the 1900s, and some people doubt they'll hold up.

JAMES BROWN, SEASIDE, CALIF.

The doubts may be right. In the 1900s, brick-makers built some kilns—usually made of freshly made brick—piled around a cavity for burning wood. Bricks nearest the fire came out harder than those toward the outside of the pile, which were cooked to medium or between soft and hard. A bricklayer or preservationist with a masonry background might be able to tell if your brick is hard enough to survive the Georgia winter. But even if they pass muster, you may find that their rough, uneven surface makes a poor pathway for wheelchairs. ■

Send questions to Ask Norm, Dept. 24, Home Magazine, 1000 Avenue of the Americas, 1001 New York, NY 10010. Include a complete address and daytime phone number. Published letters are edited for clarity and length and may not appear in their entirety.

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HOUSE CALLS WITH STEVE

Something Borrowed, Something New

Newlyweds Ken and Ros Hughes tackle their first big problem: their kitchen

For Ken Hughes, the winter of 1997-98 was a bitter season. First he discovered the perfect house down the street from where he grew up in Derby, Connecticut: a Prince-style Colonial hybrid with loads of architectural details on an acre of commercially zoned land—glory of sorts for both him and his landscaping business. Then, a month later he sealed the deal. Ken was on a Caribbean cruise and met his future wife, Ros Sciamma.

Luckily for Ken, Ros loved his case in real estate. Perched on a hilltop, the big, big blue house was built in 1942 by Henry Zaione, a Polish immigrant. The Zaiones lived there for 73 years, until the last surviving family member, daughter Katherine, died in 1997. Since there were no heirs, the property passed via probate. That's when Ken bought it—and everything in it. The Zaiones had left behind a treasure of antique furniture and a house in excellent condition. The windows, the plaster, the exposed rafters, the red oak floors, the fireplace, and masonry were all original. "I feel fortunate," says Ken. "I had to replace the electrical, the boiler, the hot-water heating, and stuff like that, but I got all this character."

PROBLEM

Character, however, was about all the kitchen had to offer. It was the smallest room in the house, and with just a sink, a fridge, and an electric stove, it had a Depression-era feel. There were no cabinets, counters, heat, or light and just one—count it, one—electrical outlet. "A broken case," says Steve. Ken and Ros have made do with portable shelving, a space heater, extension cords, and a lone table that serves as a chopping, mixing, pepping, and serving area. "It's assemble, and we love it," says Ken. "Poor Ros. She loves to cook, but we can't even unpack her pots and pans. There's no place to put them."

DREAM SCHEME

In his original letter to *The Old House* magazine, Ken said he didn't want to square the kitchen into the existing footprint. Instead, he wrote, "I'd like to blow out one side of the house to make way for a new and improved kitchen and bathroom, and while we're at it, a larger living room and



TOP: Steve Thomas consults with Ken and Ros Hughes and their daughter, Lloyd Katana (third from left). LEFT: A decade of cabinets and appliances made the kitchen impractical.



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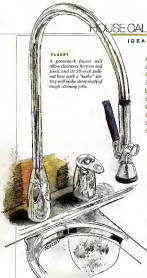
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HOUSE CALLS WITH STEVE

IDEAS NOTEBOOK

FABRIC

A gourmet faucet will allow clearance for pans and pans, and the 35-inch pull-out hose with a "kink" anti-twist will make short work of tough cleaning jobs.



After deciding on a concept—efficient country kitchen—Ken and Rose leafed through a stack of brochures for the right details. What they chose, with the advice of Lloyd and Steve, combined chic, modern fixtures with classic, cozy styling.



FAUCET

Ken had to have a 35-inch-wide Viking clean with a commercial faucet. The low faucet and gentle pull-out hose plenty of space for preparing low-sodium, fat-free meals.

FLOORING

Stone tile provides an earthy complement to stainless steel, and it looks fantastic, says Steve. But he recommends lin of stone tiles. "Artificial tiles can be hard on the feet—and soil."



CABINETS

The couple chose natural-colored maple cabinets, which are available in a variety of stains, from champagne to forest green. "It looks more 'country,'" says Ken.



LIGHT FIXTURES

These pendant lamps over the peninsula will make a big statement, says Steve. "People shouldn't be afraid to use metals within their scheme."



FINISHES

Steve is bullish on stainless steel. "I love it in my kitchen, and I'd put it in my next one," he says. One caveat, however: The metal needs regular spritzing with glass cleaner to keep off fingerprints.



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Split Decision

Dormers and a new porch give an awkward-looking relic of the 1960s a dramatic face-lift

BY CURTIS RIGT

W

hile hunting for a house in the early 1990s, Mary Ellen Seides and her husband, Kevin, realized they had drastically different ideas of what they wanted. "I always imagined living in a center-hall Colonial," says Mary Ellen. But Kevin focused on what they could afford, and, so that red, he convinced her that a modest split-level in New Providence, New Jersey, would suit them better. "The only thing I liked was the roof," says Mary Ellen of the ugly design. "But my husband kept saying we had to look beyond what it was and dream about what it could become."

Despite the house's outdated appearance,

Mary Ellen quickly came to appreciate its big closets and four bedrooms (five have four children, the youngest only a year old). And in the last six years, they did make some pleasing improvements: a new kitchen with oak cabinets, a deck out back, and wood floors in rooms that had been carpeted. But what finally pushed them to completely overhaul the house's look was their two oldest daughters, Meghan, 11, and Erin, 13, who made it clear from their squabbling that they'd had enough of sharing the same upstairs bedrooms. The Seideses called webmasters Janet and Brian Siegel of nearby Chatham,



"There's hope for every house," says architect Brian Siegel, who goes on that he found split-level, man, a much-needed reimagining by adding a new porch and dormers, almost. On the public end, he added no smaller details such as the circular window and the traditional entrance entrance of the area "to add more grace to the things we could not change."

PHOTOGRAPHS BY JOHN KERNICK

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THE FAUCET



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and asked them to add a fifth bedroom and third bathroom within the existing footprint. "I also had something vague about wanting a half a front porch," Mary Ellen recalls.

In the realm of house styles, the split-level suited as one of the least loved. "The family was born out of the idea that families needed to have several different living areas set apart from one another on distinct separate levels," in the Strakoski house that meant the family room has downstairs next to the garage, with the dining and living rooms and kitchen located a half flight up, and the bedrooms up yet another half flight. "It means you're always walking up or down steps to get anywhere," says Brian Siegel.

Siegel ran the color palette outside the double windows, rather than having them tie into an extra foot of outside space on a front porch that is only five feet wide. As Siegel says, "It makes the difference between something you can really see, and something you can just look at."

In addition, the Strakoski house—like most houses of its ilk—had been saddled with a shallow roof pitch (creating a squashed look), small windows, and widely spaced corners of rough sidewall shingles that made everything look out of proportion. "Nobody would call these features charming," says Siegel.

Searching for a better model, Brian Siegel thumbed through *A Field Guide to American Houses* and found one that was popular in the run of the last century: a gable front-and-wing farmhouse with a front porch spanning the length of the wing. It wasn't a split level, but they thought the lines of the Strakoski house could be reshaped into a close resemblance. To this end, they moved the roof line over the wing five feet, which gave them the space they needed for the additional bedrooms and bath, stretched the eave line one foot to create a shingling, wrap-around front porch, and added a pair of doghouse dormers to break up the new prominent expanse of roof. The Siegels also paid close attention to the materials for the outside. These included thick, architectural-grade asphalt roof shingles, and cedar clapboards with a 6-inch exposure, a porch deck of tongue and groove Philippine mahogany, and large vinyl-clad wood windows to replace the inefficient aluminum ones. The result, Brian Siegel says, "is a house that looks up-to-date, without being too over-the-top for the neighborhood."

"The porch was the key," says Siegel. "It gave the house the accen-



tual focal point that it lacked." At first, they wanted to make it eight feet wide, but zoning requirements limited it to five feet, just broad enough to hold some chairs. Nonetheless, Mary Ellen's reaction to the double-colored exterior was immediate. "When the plans were unfolded in front of me for the first time, I just thought, 'Wow!'" she says. "I had no idea it could look like this."

While the Strakoskis continued to live in the house, builder Paul Cocco and the crew of the Hamden Builders ripped off and rebroke the roof over the wing, reroofed and reroofed the main house, and added 30 feet to the chimney using brick salvaged from the locale. The existing spaces were built, not built enough to support the new floor, so Cocco built new joists to the old ones. Unfortunately, the old shingles were asbestos-containing, so they had to be placed in a plastic-lined Dumpster and tracked to a hazardous waste landfill. Cocco's crew wrapped up the work in four months, including a gut remodel of the existing bedrooms. Total project cost: \$460,000.

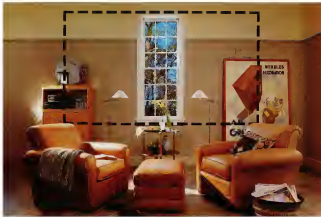
"I still can't believe how nice it looks when I drive up to it," says Mary Ellen. Each night, when the weather is good, she and her husband sit on the porch swing out front. The whole family appreciates the extra room—especially the third bathroom. And her daughters love having their own rooms, each decorated with identical pictures of Rocky Mountain "It's Funny," says Mary Ellen. "Now that they have their own space, I always find them in each other's rooms. Go figure!" ■

SURE BEATS A SKYLIGHT

In many parts of the U.S., it isn't unusual, in fact, to find a house with a skylight. Adding two skylights to the Strakoski's 1960s split-level not only gave the house more appeal but served up the main headache with blue-tinted windows: sunny rays didn't shine through the double windows and a few dozen under weather. "Both inside and out, the elements add a warmth and a familiarity to the house that was completely missing from the original," says architect Brian Siegel.



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M A T E R I A L S



Bundles of bamboo stand in a 180-year-old workshop in Kyoto, one of the places where bamboo is harvested. From left: bamboo stalks, for poles and screens, a spine used in the modern Japanese style, black bamboo, for screens, and white bamboo, for poles and screens, a spine used in the modern Japanese style. Bamboo is used in many ways, from poles and screens to modern Japanese style.

Stalk Market

Bamboo's value is shooting up

W

hen you think of bamboo mostly as a graceful garden screen, best planted where its arching stems and papery leaves can be heard rustling pleasantly in a breeze. We know its decorative uses: light and cool, it becomes a window blind. Planted, it's a fence. What if, it's a chair. The stool seems too fragile, too whimsical, for anything more demanding.

In China, however, bamboo scaffolds bear 20 times the load. In India, mats of woven bamboo are used to hold concrete until it sets. In Africa, Central America, and much of Asia, it serves as roofing, flooring, shelving, even furniture. Now, a surprising array of new bamboo products are reaching our shores, offering a strong, sustainable, and environmentally benign alternative to timber cut from trees.

BY JENNIFER HUBER

Although bamboo contains the same substance found in trees—lignin and cellulose—it is actually a grass. Its shoots emerge at full diameter and reach their mature height (more than 100 feet) in about 60 days. Harvesting causes no more harm to the plant than mowing does to a lawn, a stand regrows and fully at seven years or less (An oak or Douglas fir needs at least 30 to 60 years). Also, bamboo is free of such common pests as termites and grubs, which affect the strength and stability of wood. All this argues for more widespread use, except that new bamboo doesn't lend itself to standardized dimensions or quick joinery. Most poles are hollow and

PHOTOGRAPH BY STEFANO MARREI

B E W I T C H E D B Y B A M B O O



Bamboo builders Jacobson Stuart, left, and Olaf Chelton.

they started Bamboo Builders Northwest and began creating custom patios, bridges, and every other imaginable outdoor structure out of their favorite material. "Bamboo isn't just for Japanese gardens," says Stuart. "It can look very modern, especially when combined with other materials."

Chelton, 35, collects the elements of working with bamboo: "It grows so perfectly straight, and trying to join a tube to a tube is a challenge." To cut the spiky weed, they use five-tooth Japanese pull saws. Sometimes they fill hollow sections with concrete or wooden plugs so that batts or screens will hold, but more often they join the joints together and cover them with decorative mesh hamp. They've dressed up the plain metal posts on choko-fuk fences with split bamboo poles and used bent posts to shape bamboo into curved handrails (the curves freeze as the stalks dry). When asked whether they'd remain in the comfort of WA, on their Japanese counterparts' watch, Chelton laughs. "Why not?"



Stuart and Chelton built this simple fence seven years ago around a garden in Maple Valley, Washington. The joints each year pullers are removed together and the joints are covered with Japanese mesh and wire decorative hamp. The whole structure is held off the ground by pointed pine posts.

50 percent less than red oak, so that it means staying in humid weather or drinking to avoid unpleasant gaps in dry weather. Dan Smith of Smith & Ping, which makes Plybam flooring, stores tropical timbers to a floor at a bookstore in the San Francisco International Airport. "Over 20 million people have walked over it," he says, "and it's holding up amazingly well."

True so, with no flooring industry standard governing bamboo, buyers need to be careful. Some easily float, delaminate, prompt manufacturers to change plans or compare better overnight in China and Vietnam. François Miron, president of Mimco, the maker of Eastern flooring, suggests asking those questions. Dan Smith recommends checking to see if floorboards are of equal thickness and fit together tightly. "Each strip needs to be exactly like the others," he says. "If not, then you'll have gaps." Sean Ostrom, whose company sells TimberGreen flooring, advises getting some samples and comparing their thickness about the tongue, since this is what determines the number of joints the floor can be made.

Ostrom hopes that the success of bamboo flooring will encourage people to explore other uses of the material. He envisions the day when everything from paper to construction-grade plywood to bamboo will be made from this quick-growing plant, allowing other forests to return to their rest and start so does Trevor Dugan, a Ph.D. candidate in civil engineering at Queen's University in Kingston, Canada, who is in the process of developing composite of shredded or pulverized bamboo

and glue. "I am convinced that the real future for bamboo," he says, "is as fiber—for MDF, particleboard, and the like."

There is much of a good-looking, conservative natural look to environmental baggage don't want to wait for the halos of the future, they want it now. Designers, landscape architects, contractors, and cabinet makers have been attempting since David Ruben's year-old San Jose Avenue store in Richmond, California, thinking out his elementary lesson that he can't replace it. "It's been a real wild ride," Ruben says. "Somebody wants to find out about bamboo."

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Classical Glass

A conservatory turns a house into a crystal palace

BY HOPE KEEVES

Beth Kregan's Frame style home in Trivett, Florida, was a historic gem—except for the smell and dingy kitchen. A year after moving in, she and her husband, Keith Murrells, began searching for a solution. A friend suggested adding a conservatory onto the space, but both were dubious. "I had never seen a glass room whose style would get approval by our husband's commission," she says.

Kregan's lack of knowledge about conservatories wasn't unusual. "It's amazing how many people think a conservatory has to look like the thing attached to a Burger King," says Jim Lucati, president of Town & Country Conservatories in Chicago. Explaining what a conservatory is—well, what it isn't—occupies much of his time. "It's not a greenhouse, a Florida room, or a sunroom," he says. Unlike a greenhouse, a conservatory is a structure designed for people, not plants, and its glass roof distinguishes it from other glassed-in rooms. Pinned most often in neoclassical vocabulary or red color, sheathed in glass, and

with decorative iron moldings, a conservatory can make a small garden, a room, or a conservatory in itself. But, says Lucati, "New Jersey just says and might be right, the more things come on, the more things come on, just by the way, but that's not the American floor."

PHOTO COURTESY OF WILSONART FLOORING



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climate-controlled, conservatories provide a comfortable, year-round living space. Styles range from so adé as with a simple lean-to roof to a freestanding mini-Capitol Palace with a soaring domed roof, graceful arched pediments, and ornate mullion-crenells and finials. "They can be family rooms, dining rooms, play rooms—wherever the homeowner wants," says Lucas. "Well, with a few exceptions: 'We greatly discourage requests for a bathroom or bedroom,'" he says.

The Kropas Marshburns welcomed the idea of a conservatory after David Bishop, a designer and builder of fine spanned straddles, showed them the difference between ornate gabled Tudor-style iron and one of his recent creations. "When I saw his portfolio, I knew that one of his designs would fit perfectly on my house," says Beth. Bishop framed out a two-sided addition connected to the kitchen via French doors, attached it atop a foundation, and attached the glazing. Now, no matter what the weather conditions, Kropas, Marshburns, and their three kids gravitate to the conservatory, where it's always a perfect 75 degrees. "It's glorious," says Kropas. "It's changed the whole house, and the way we live in it."

The roof of these additions was manufactured and shipped over from England, the source for conservatory components. In the 18th century, the English perfected the domed wood or iron frameworks that could be wrapped in glass from roof to sill. These were sold by the

thousands to a prosperous clientele inspired by the notion of conserving with nature from a comfortable perch—comfortable at least some of the time. Earlier generations of single-glazed rooms could be cold, wet, and drafty in the winter, and unbearably hot in summer.

To improve insulation in the winter, today's conservatories have double-glazed panels that are tightly weatherstripped to hold in heat and prevent condensation, working windows—usually at least a third of the structure's surface—ventilate the room in warm weather. But to really live comfortably under glass year-round, Lucas suggests installing a separate forced-air heating and cooling system. Radiant-floor heating is strong on the table. "I often walk in and find my kids lying on the ground to watch the snow fall," he says. And for every hot day the air conditioning laborer to keep the room cool, there's a cold day when the conservatory provides free solar warmth to the rest of the house.

If all this sounds expensive, that's because it is. David C. Bishop & Co.'s conservatories cost between \$40,000 and \$60,000. Town & Country's run from \$25,000 to \$200,000. The price varies depending on the size of the conservatory—250 square feet is typical—and the detail of the design. "But what you get," insists Lucas, "is a room you never want to leave." Beth Kropas says that when the family isn't in bed, they're probably in the new 100-square-foot addition. "Summer," she says, "we joke that we might as well go out of the rest of the house."

A conservatory can, like a family room, be used for everything. The Kropas Marshburns, who built the first conservatory in Missouri, call theirs the "family room and living room." It's a place where the family can relax and enjoy the outdoors without going outside.



CONSERVATORY CHECKLIST

- Hire a contractor experienced in building conservatories. Check references and insist on seeing a portfolio of previous work.
- Consider the siting. A structure facing east will catch the south-facing rays, but will be protected from its baking heat in the late afternoon. Putting it closer to a driveway will reduce solar gain in summer, but allow it to winter.
- Choose your glass carefully. Order to make sure it requires the use of safety glass, which doesn't shatter into small, dangerous pieces. Insulated glass reduces condensation and heat loss in colder climates. Tinted glass filters the sun's rays.
- Maximize parking, weatherproofing, and paint to your outdoor on a house. Wash the glass at least twice a year.

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Mind Over Money

How to avoid the mental mistakes that can send renovation costs through the roof

M

ichael Buerst is still trying to figure out how his renovation got so big. The original plan was simple: Buerst, a college professor in western Massachusetts, wanted to put in a new kitchen and then convert two of his acres of bedroom into offices. "It was supposed to take three months and cost in the high five-figure," he says. But the project grew, ultimately including makeovers of the master suite, the living room, and one of the bedrooms. "We finished it yep, but, and it cost three times as much as our original budget," Buerst recalls.

The house turned out great but, by nearly doubling the scope of his project, Buerst had succumbed to contractors' strongest temptation—doing, and spending, far more than was initially planned.

Buerst's tale is common, if extreme. The National Association of the Remodeling Industry estimates that 80 percent of renovations exceed their budgets—by 15 to 20 percent, according to most contractors. Even contractors put in as valuable to the ballooning-project syndrome. "We just did a major renovation in my house, and the extra thing that happened to clients happened to me," says Hinson contractor Dave Bander. "It took longer and cost more. It was almost as if a hidden force was at work."

Bander is right, but in his and Buerst's and thousands of other cases, the force emanates from the road, where a variety of subconscious inclinations can contribute to under-estimating financial decisions.

"Remodeling is a minefield of mental money mistakes," says Thomas Gilovich, a Cornell University psychologist and author of a new field of research called behavioral economics, which combines the twin disciplines of psychology and personal finance. He and others have sought to understand how people make financial decisions—about stocks and savings, as well as bathroom sinks—and why those choices are often inconsistent and sometimes downright irrational.

Considering the common misconception that people bring to a renovation—a jumble of desires, hopes, and dreams for making home sweet home even better and safer—it's no wonder that fiscal contractors have dissolved into despairing do-it: But it doesn't have to, says Gilovich. "Understanding how mistakes are made can give a long way toward helping you make them," he says. "It may seem like a small game, but it can help you stay on top of the money game."

BY GARY KELLEY

ILLUSTRATION BY LOU BROOKS

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Here are some of the mental money mistakes most likely to cause renovation failure, and the smart ways to avoid them.

MISTAKE #1: IT'S ONLY MONEY

In the middle of building a large deck, a contractor approaches the owner with a proposal to upgrade the decking, railing, and balusters from pressure-treated pine to mahogany. Providing a piece of the extremely hard-looking tropical wood, the contractor says it would raise the cost from \$10,000 to \$12,000. The owner says he'll think it over and heads for his home office to check out the bid—on his \$30,000 home equity line of credit. Seeing that he's only burned through \$15,000 so far, he says to himself, "What the heck, he got 13 grand left!" He goes for the mahogany.

What our homeowner has done is demonstrate a subconscious preference to "optimize" his loss. Explains Gilovich, "It's easier to disregard an expense if you can hide it from yourself in a bigger expense." Then spending an extra \$2,000 for the mahogany seems negligible compared to the \$10,000 he's already committed to.

Renovation budgets are particularly vulnerable to this tendency because most often the real money is borrowed, and borrowing on credit leads people to spend more than they might otherwise. The money is not deductible, and at today's rates a few extra thousand dollars of long-term debt costs only a few dollars a month. Besides, the Housewise contractor, seen it happening all the time. "Clients think they can afford something because it just seems borrowing more," he says.

PREVENTION: To the extent possible, finance renovations with savings. "The harder money to spend is money you've saved," says Gilovich. If you must take out a loan, calculate its real cost by including interest expenses. You might find an \$180 ceiling fan isn't a necessity when you take an \$700 as long-term interest.

MISTAKE #2: LITTLE THINGS DON'T MEAN A LOT

While renovating her bathroom, a homeowner buys a toilet-cleaning brush and bath mat that cost \$100. When the house, she sees it in a newspaper and that the same item is on sale for \$75 at a home center, she rushes away. She immediately gets back at her car, returns the \$100-cleaning brush and goes for the lower price. The next week, she's back at the store, about to buy a toilet for \$380, when a neighbor says he's seen it on sale at the other place for \$275. This time, the homeowner just shrugs and spends \$380.

The homeowner's subconscious response to own versions of the same opportunity—drive five miles, save \$25—is one of the most common and costly forms of what Gilovich calls the "big man bias": the tendency to dismiss or discount small numbers or percentages as insignificant.

PREVENTION: When you're spending thousands, or tens of thousands, it's easy to lose track of small sums or tell yourself that they don't count. This is especially true when purchases are stretched over a period of time. Keep track of the small stuff—you can add up to big money and big costs.

MISTAKE #3: WHO'S THE THIRDS?

A young couple have a baby on the way soon, and clearly want to remodel one of their bedrooms. It's a little too small, but mainly it needs new everything: flooring, trim, lighting, a bigger closet, plasterwork, paint—the works. If the couple can get the five-ft-tall day work—and get it fast—they'll live with the space problem. So they call in a few contractors, show them the plans, and ask schedule

One week to complete? All but one of the candidates say, No way, it's a three-weeker for sure. They have the contractor who says yes to the one-week time frame.

In this scenario, owners and contractor alike have fallen into the same trap—called "the planning fallacy"—which is a fancy way of describing the tendency to underestimate what it will take in time, effort, or money to complete a task. Both parties want to believe that a project will finish on time and on budget, and that they will leave each other's doors, even though it's usually unrealistic.

Homeowners can be excused for being optimistic of the reality that contractors almost always take longer and cost more—even if they use no appendix or add-ons—but contractors should know better. And too often, they don't—even the most honest and well-meaning ones. "Everybody has experience with the planning fallacy," says psychologist J. Edward Russo, co-author of *Decision Traps*, "but nobody knows that was their thinking."

PREVENTION: Guard against budget overruns by getting at least three detailed bids. Scrutinize each to determine the differences, and question each contractor about those variations. "The addition to providing you with realistic prices for all products and materials, your contractor should give you a cost breakdown for every day of labor. That way he will have a hard time juggling being late," says Chicago builder Jack Philbin. The contract should also include work-day penalties. "It's not foolproof," Russo says, "but you're less likely to have delays if the contractor has an economic stake in it."

MISTAKE #4: ADDING ON—AND ON AND ON

Now let's go back to Michael Berni, the New England professor whose renovation took so long and cost so much. His tell us what is often called the Whole-You're-ask Syndrome. Homeowners in the throes of this common but costly condition pepper contractors with add-on during in progress, rather widening the scope of the work or tacking on extra goodies, or both. "Someone who'll never spend \$300 for a bathroom towel bar will suddenly decide they can't do without one," says Berni. "It doesn't seem like that much when you're already spending \$30,000 on a bathroom." Predictably, the inclination to make changes grows with the amount of money involved (which is why this mistake often occurs along with mounting loans, discussed earlier).

PREVENTION: The National Association of Home Builders estimates that Americans will spend \$126 billion on remodeling and maintenance this year, and a lot of checks they write will come major cost overruns. According to Philbin, the best way to avoid this predicament is to select features and materials early. "I make sure everything is chosen before we go to contract," he says.

University of Chicago behavioral economist Richard Thaler recommends an additional strategy for controlling costs: "Ask yourself if you'd be willing to pay \$1,000 for a sink—if that's all you were doing. By breaking down the components of a large purchase, you can conserve the psychological benefits that might make you spend more than you want."

This Old House contractor Tom Silva offers this advice to potential renovators: Expect the unexpected—in fact, plan for it. "I always tell people to subtract 10 to 20 percent from the budget before making renovation decisions," he says. "If you have \$100,000 to spend, construct for \$85,000. More likely than not, you'll end up spending the \$100,000." ■

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Home-Office Solutions

From furniture to phone lines, how to make your workspace work

W

hen she began her work-at-home career as a freelance writer, Marilyn Zelnick gave careful thought to her workspace—but hardly say so all to where she would actually do them. She began working on the dining room table, then moved onto an 8-by-10-foot din off the living room. When she found herself spilling back and forth the dining room, Zelnick got serious about designing a home office—so serious that she wrote a book about how to do it, *Practical Home Office Solutions*.

Zelnick knew that she had a suitable personal solution. According to a survey by the International Data Corp., there are now more than 27 million people who work at home at least part-time, a number that grows by about eight percent per year. Yet the field of home-office design is still in its infancy, and there are no truly sound guidelines about how to turn a room into a workspace, where to put which equipment or how long or wide cubicles and work surfaces should be. Still, there are some general (continued on page 64)

In this past vintage-themed home office in Westborough, Massachusetts, modular furniture adds a cherry counter helps create a warm, homey feeling. The quarter-round drop-in table floats up to provide extra workspace.

principles to keep in mind when putting together a home office that really works.

First, whether the office is extended for full-on part-time work, or is a place to organize records, pay the bills, and give the children Internet access, choosing the right spot is crucial to its success. "Everybody makes the mistake that all day need is a little corner of a room—but usually they end up spread all over the house," says architect Don Deidman. He recommends that a work space measure at least 30-by-10 feet.

The nature of the work to be done and the number of people using the office can also dictate its size and setup. A solo worker may need less seating and desktop space than one the whole family will use. If clients will be coming for meetings or work sessions, a separate space might be useful to keep them from traipsing through the house. Visitors need their own chairs and perhaps a table, a place to hang their coats, and access to a guest bathroom, says architect Robert A. McSweeney—"unless you want them to use a family bath and risk leaving their tag on your child's rubber duck."

Work surfaces and storage will probably need to be designed on a budget. Builders may be over expensive, and one-piece counters won't be a good investment because they usually don't contain enough work surface—there should be at least five feet, says Zelnick. A modular office furniture system, which typically includes desks, computer tables, bookshelves, and file cabinets, is the most affordable option. They can be assembled almost like Legos, but they can also expand as the need for workspace grows, and are available in an array of styles and



The built-in, 22-foot-long maple desk in this Phoenix office was designed with two functions in mind: a husband and wife could sit alongside one another

pieces, from lovely laminates to finely finished hardwoods. "The biggest new in home office furniture is that it doesn't have to be ugly anymore," says Mark Darbo, of InHouse Furniture and Design in San Francisco. Flexibility is another advantage of modular sets. "You may want to change the room around or move the office altogether," says Darbo.

After you figure out your furniture needs, focus on lighting—natural and artificial. Don't place your computer monitor too near a window or daylight, says Barry Berkoff, an interior designer from San Jose, California, because glare can disrupt your work. Shades or drapes may be necessary. Since desk lamps can also cause glare, Berkoff recommends installing recessed lights to brighten the room from corner to corner, and using smaller task lights to illuminate specific work areas. "You see this type of lighting in corporate offices, and that's a reason for it," he says. "It causes less eyestrain."

It may make sense to add extra outlets to accommodate electronic equipment, from fax machines to paper shredders. A bigger priority is a second telephone line—or even a third—for home and business connections. A dedicated office line also provides a buffer between work and personal life. One mother of two who survived divorce did the hard way when her four-year-old daughter begged her to answer business calls on the cord-free phone—while she was in the shower. "There are bound to be more ambers among cordfrees," says Zelnick. "But with the right planning, you can keep those to a minimum." ■

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THE HEALTHY WAY TO SIT

A badly designed home office can be more than just stressful—it can hurt your health. Injuries—from stiff desks to severe necklines like cervical spinal syndrome—are related to computer work. Two pieces of equipment are critical, says Ellen Kellner, a New York-based occupational consultant: first, a firmly constructed chair on rollers that has adjustable everything—seat height and tilt, back angle, and arm rests. "A chair should help you maintain good alignment," she says. Second, and equally important, is an adjustable height desk (available at office supply stores).

The goal is to be seated so in this illustration: [1] The keyboard should be below the work surface and tilted slightly downward, so the wrist sits in a natural, straight position. [2] The screen should be angled at 30-degrees at gender. [3] The top of the ergonomic screen should tilt to be at eye level when you stare straight ahead. [4] Feet should be flat on the floor or sit on a footrest if they don't reach. [5] The seat height should just barely touch the floor, so the knees are level with or slightly below the hips. Finally, explore new tools, so the phone while typing should connect to a headset. "Nothing keeps you truly faster than pinching the phone between your hand and your shoulder," says Kellner. "It hurts just talking about it."



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Circuit-Breaker Panels

BY CURTIS NIXE

O f all the mechanical gadgets a homeowner deals with, nothing sparks more anxiety than the circuit-breaker panel: the gray metal box that receives power brought in by utility lines and directs it to various parts of the house. "People call me up, scared to death to go near the thing," says electrician Allen Galtant. "They think they will get zapped by 1,000 volts of electricity."

Although a panel is not to be handled carelessly, its function is to protect—not hurt—you. First, the box is designed to keep the juice under control. "Unless someone's done a really stupid wiring job," says Galtant, "the circuit breaker will prevent the house from burning down." And just by flicking off the right breaker, you can stop the flow of electricity to a particular location, allowing you to install a light fixture or repair a wall outlet—without worry.

POWER LINE: Delivers 240 volts from the local utility.

WIRE CABLE: Carries electricity from the power line.

GROUND CABLE: (Grounded copper) Connects the ground bar (below) to buried ground rods, diverting excess electricity out of the circuit and into the earth.

THE BOX: Typically rated for either 100-amp or 200-amp service; the higher the rating, the more circuits can be put in a house. Galtant notes it is his practice to install 200-amp panels whenever possible.

MAIN TERMINAL: Don't touch! Connect with either of these terminals: metal extension is a lethal dose of electricity, even if the main breaker is off. Never remove the knockout panel, or we did to take this photo.

GROUND BAR: Connects each circuit's ground wire to the ground cable.

GROUND WIRE: (Grounded copper) Diverts excess voltage from the branch circuits to the ground bar.

HOT WIRE: Carries supply electricity to each branch circuit.

NEUTRAL WIRE: (White) Completes the circuit.

WIRING: Sheathed cables that carry power to outlets, fixtures, and appliances.

NEUTRAL CABLE: Completes the circuit to the power line.

MAIN BREAKER: "Turn it off, and you can safely work on wiring anywhere in the house," says Galtant. But be warned: You'll have to reset all your digital clocks, VCRs, and power-window machines.

SINGLE-POLE CIRCUIT BREAKER: A single-headed switch attached to the back of the main terminal. Flip to the off position when current exceeds 15 or 20 amps or a 120-volt circuit. That blocks the flow of electricity to the part of the house the circuit is connected to. Excess current generates heat, which destroys the steel-wire-wrap strip inside the breaker and causes it to trip. Circuit breakers can be reset by moving the switch back to the "on" position.

DOUBLE-POLE BREAKER: Replaces 240-volt circuits—used in every power to major appliances like electric stoves, water heaters, and clothes dryers—fuses two circuits.

MAINTENANCE: Label each circuit breaker for the area it serves. Substituting one remodeled flipper every five years will save you and all future renters in time and money. Don't remove them until you're sure the electrician replaces them if they won't trip, or if there are signs of rust on the screw terminals or the lugs of the bus.

PHOTOGRAPH BY MICHAEL OR

Tall Order

Old porch columns can be saved



S

ince Tim Baker started in eight years ago, his 1919 Colonial revival has kept him pretty busy. A senior editor at *The Old House*, Tim has completed a string of projects that have brought most of the Fair-Field, Connecticut, house back to its former glory. Last year, he had the front porch rebuilt from the foundation to the floorboards, which straightened and secured the platform but left a glaring omission: The four Doric columns that support the porch roof made quite a show of peeling paint, cracked and rotted beams, and vines growing apart at the seams. "I knew they were bad," Tim admits, but they were also at the top of his to-do list.

The 40-year-old columns needed a complete overhaul. Putting in replacements would have been the quick-and-easy fix, but Tim wanted to keep the originals. "This sounds like a job's afraid to sleep," he says. "I needed another solution."

For the first step—striking the old columns out—Tim needed to clear the porch roof a fraction of an inch. To do this, he positioned a metal Lally column on a 2x6 directly over the new head joist he installed last year to support the front edge of the platform. Then he

removed the Lally's adjustment screws, along the roof just enough to lift up the 70-foot-tall column. To assist the area around the damage

and make the right repairs, Tim needed to remove eight decades' worth of paint and get the columns down to bare wood. Working at the end of his driveway, he had a pair of 2x6s across two carports that had been draped with a sheet of polyethylene and set a column over them. "Bringing paint is messy and goes really toxic, so I used the poly to catch the lead paint and the goo," he says. After breaking up the viscous paint remover and washing three hours to clean the paint, Tim started scraping, in long cuts not to gouge the pine. He followed up with a heat gun and putty knife to remove the most stubborn paint and any remaining scraper shreds.

Once most of the paint was scraped off, Tim reversed the top end of the column with a head clamp to keep the loose shavings—the inch-thick lengths of wood from the shavings—before coming completely apart. There were several open seams because, he says, "the last kid probably nailed the stones



Tim Baker scrapes off the last of the paint with help from a heat gun. Above, head clamps hold stones together while the columns are in the new steel rods in the top helps the inside under and down.

with lead glue, which is strong but water soluble. Over time, it simply washed out."

To expose the stone, Tim used a sanders' advice or he learned about from a boat-builder. The fast-moving, water-grade polyurethane has the perfect combination of tenacity and flexibility to hold the ropes and groove joints together for a very long time.

But first Tim had to clean them of old glue and chalk, stripper, dirt, and sand—a perfect job for his detail sander. After he spread the goo over with a block of wood, the small triangular sanding pad fit easily into the cracks between the stones. When he had sanded the joint clean, Tim wiped away any remaining sand with an acetone-soaked rag.

Since the adhesive has a 30-minute working time, the next step had to be done quickly. After squaring a head of glue between each stone, Tim then wiped the column with strips of plastic to keep his hand clamps from sticking to the adhesive. Then he positioned and aligned the clamps, tapping

the stones at his waist—first on the ends, then along their length—so they drew together tightly and in perfect alignment.

The next day, Tim reached again for his sandpaper to sand, but this time he got a scraper head on it, and third-year powerworking strips of coarse adhesive. The columns were also sanded with sand, lime, dust, and grease, which Tim all but mixed with wood filler followed by a careful hand-sanding. He'd seen the way left-in-the-sand can put flat spots on a column's perfect roundness. "You sand a surface with a backing pad that conforms to the shape of the column," he says. "Hand-sanding is slow, but safe."

Painting started with a coat of water-resistant wood preservative, followed by an oil-based primer. For a topcoat, Tim brushed on a semi-gloss oil-based paint—white, of course. "For a primer," he says, "I know paint would probably make just as well, but I still prefer the look of oil."

After putting the reassembled column back in place, Tim lowered the Lally Steel/Aluminum rod once again, the old column looked really as good as new, ready to stand tall for another century. And from Tim's porch, it's one down, three to go. "I try to think of this as a week-end project," says Tim. "A lot of weekends." ■



BASE MATERIALS

Wood-Bear's (in Connecticut) contrast with water is designed to rot, a fact that makes using a column base. Even if it is more costly, it is more resistant to rot and water—and there are no mistakes of exposure can still ruin it. Today, however, bases are made not only of wood but also of cast aluminum and different types of plastics, some of which will never succumb to wood-eating caterpillars.



Reinforced aluminum, 1800, 1800, and midweight bases are carved from large, solid blocks. They're made from a single piece of material, so they don't have joints. Full materials typically carry a lifetime warranty.



Polyethylene bases (\$120) are cast from a 1/2-inch-thick polystyrene. They're made from a single piece of material, so they don't have joints. Full materials typically carry a lifetime warranty.



Cast aluminum is a good choice for large, load-bearing columns. The bases are expensive, about \$120 apiece, but carry a lifetime warranty. The base aluminum has to be coated with special primers and paints.



High-density polyurethane (HD) will never warp, rot, splinter, absorb water, or become a host and breed for termites. Even so, however, the polyurethane can chip, especially in cold weather.

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the details

BY REMY FOKORNT PHOTOGRAPHS BY BILL STEELS

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endure, houses—happily—
will still need mailboxes.

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or walls, these repositories not
only connect you to the world
but also complement your home's
architecture, accent the porch, or anchor the yard. The ritual of walk-
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with an ornate bracket, this
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Embossed with a mailcall dove, a painted metal box from Townsend's Expert All gives a house a hint of color



An inventive copper box from Jeff River Designs evokes the tone of Rural Post Delivery



Our French-made craftsman Ernest Reyn creates simple, quiet, rustic mailboxes with an Arts & Crafts-style appeal



A Cape Cod-style roof tops Mackay Lighting's brass box, which features polished brass and newspaper hooks



Smith & Shuck's round, cast-iron water-finished steel includes a frame for the homeowner's name in the lid



A metal-black finishing on polished steel from Caden's Blacksmiths harkens back to the days of the Pony Express



Shades add character to the slender brass one-liter steel a vintage-style cap, from Mackay Lighting



Joseph Brown's historical copper mailboxes, with the window-like openings, stand in a rustic setting

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the details

Post Master

Working in a cottage-house workshop behind his Baltimore home, Brad McDougall cascades scintillating mailboxes by welding rails, forged-ironwork, and double-bit axes to fabricated steel containers. He built his first mailbox in 1991 for a crafts competition at the Rochester Institute of Technology in upstate New York. "We had one day to make a mailbox, using any materials," says McDougall, 26. "I thought traditional mailboxes were boring." He won an award, and has produced anything-but-boring mailbox sculptures ever since. An oxidized steel kitty crouches atop one box, while another takes on a humanoid shape with real extension cords for hair. He Mail Day, featuring a baseball bat scored as a bristling coat of arms, sends a clear message to thieves or vandals, but McDougall's best-selling design strikes a gentler note. It features rusty blades of steel grass that "rustle in the wind and play a song," he says. An interactive railroad



above: Marylander Brad McDougall spent up when his 3-month-old daughter, Olivia, made the studio where he creates his traffic-stopping mailboxes. Left: Brad McDougall's public-artful front of letters adds steel-and-iron art flowers

In-door Delivery



versions, such as the neo-Gothic cast-iron slot (the outer and inner sides are shown), give front doors a Victorian sensibility. Find them at architectural salvage shops.

For homeowners whose postal carriers still walk their route—and who don't mind having mail cascade onto their foyer floor—letter slots are a charming way to receive the daily dispatch. Vintage



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LETTER FROM

THIS OLD HOUSE

Mind in the Gutter

A warm reminder of the quintessence of New England. The warm days and frosty nights see the sugar maples affirm and ripen the crab apples for birds to feast on. Pumpkins and squash are stacked up at roadside stands, their vibrant colors adding to the beauty of the season. I grew up on a waterfront in Southern California, where September meant warm days for the first time since school let out and riding big waves pushed up by the equatorial jet off Alaska.

But whatever the pleasures of fall, it also brings a lot of chores for a home owner. Some of mine are quite pleasant, like updating firewood by hand and raising crab leaves into big piles my son and his pals love to jump into (keeping the dead foliage, however, in a dump). Blowing out the garden pipes with compressed air before the first hard frost is painful and highly satisfying. Still other tasks—fixing up the boiler and leveling the soot out of the radiators—make me shudder. Maybe the easiest won't work justifiably the best of a bad dream, and I'll have to make a desperate call to my plumber.

But there's one job I put downright near the bottom of the to-do list. I put it off as long as I can—usually until a rain, every day comes along and convinces me with the embossing of water cascading off the roof and down the side walls. Our owner the 30-foot extension ladder and up I go. Glad to see my work, working 4-foot sections at a time, I scoop handfuls of dark black soot and fling them down on the back wall, where they land with a disgusting plop.

Every year I swear that I'm going to install a gutter screening system to keep out the leaves. And every year, for some reason, I put it off until it's too late. But this year, as I was up on my ladder, dusting, sucking and mashing my soot, I noticed on the upside of the soot the risk. It gives me a chance to look around, across the condition of the roof, rafters, ridge, and drip-board, and discover any cracks in the house's armor that could admit water—a house's most relentless enemy.

My house has been standing here since 1836 (although the construction indicates the new built earlier and moved to the site). I check it for an old wooden beam, some and heavy if well-maintained. She's seen a lot more winters than I ever will and, if I have a woman keep up with their fall-to-do list, she'll see a lot more.



When it comes to cleaning gutters, This Old House's Jim and Susan prefer the old-school method of using a brush (shown) to the brush.

BY STEVE THOMAS PHOTOGRAPH BY KELLER & KELLER

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building on t r a d i t i o n

This Old House looks to the past to find the future

BY BRAD LEMLEY

In 1957, engineers from the Massachusetts Institute of Technology erected the Monsanto House of the Future at Disneyland. With an outlandish shape that was variously described as a pinwheel, a clam, and a flying saucer, the house was sheathed in plastic and rested on a pedestal. Inside, the kitchen boasted a prototype of a microwave oven, an amazing innovation that promised meals in minutes. The living room was dominated by a model for a flat, wall-mounted television, whose time has just now come. In its first year, two million tourists eagerly trooped through this portal to plastic.



More than four decades later, in Billerica, Massachusetts, *This Old House* is building another vision of how Americans want



Four months after the first Old House house was sheathed, rafted, and ready for siding, windows, and trim. The guided visitors will continue the makeover with a tiny kitchen and the upstairs master suite.

PHOTO: MICHAEL JAMES

to live in we turn the corner on the future. And the project reveals how much—and in some ways, how little—our notion of the perfect house has changed.

The vision belongs to architect Chris Dullman, whose firm, Design Associates Inc., has worked on many *The Old House* renovations. The house belongs to Dick Selva, a retired carpenter who has worked side by side with his brother Tom for more than 33 years. When Dick's 70-year-old Cape burned down in 1990, the show's producers decided to make the construction of his new home the focus of the Fall 1999 series and generously enlisted Dullman and his studio of suppliers in the effort.

From the outside, at least, Dullman's design for the new Selva house is nothing but a sleek spaceship. Bay windows bulge from walls. Porches and pergolas overhang decks, and dormers pop out of high-pitched roofs. It has all the signature elements of Victorian architecture, a style more than 100 years old. But beneath the



Eric MacIsaac strikes through the partially finished first floor. He and his workshop created and installed the complex, 3,000-square-foot house on just two and a half weeks.

classic appearance lies a thoroughly modern, fast-wood-looking house, one stepped of Victorian traditions and equipped with the latest materials and labor-saving conveniences. In this respect, at least, it's not far removed from the Disney-fied display. "This design mixes 18th- and 19th-century architectural details and combines them with 20th- and 21st-century technology," says Dullman. And that, according to the National Association of Home Builders' Research Center, is just the sort of home most Americans dream of. "Houses in the '90s were mostly garages with boxes attached," says Will Feltle, survey project manager for NAHB. "Residential construction today has bigger roofs, higher ceilings, and more custom architectural cues." Feltle's survey also shows that most Americans have already decided, and dream like, that centralized home systems, home theaters, and automated conveniences—virtually nonexistent in 1970—had become almost commonplace in high-end homes by 1997. In short, Americans are eager to step forward into a technological future, but want to wrap a framework that tells us where we came from.

Dullman drew his inspiration for the old look of Selva's house from the simple gable-front "workmen's cottages" in Billerica's town center and other old towns nearby. "There were the raised-arches and gable-fronts of 1800 years ago," he says. Adding a pair of flanking wings helped reduce the design's mass, define the exterior spaces, and "make it look like it was built in the 1840s and had been a solid one ever since."

That notion resonated with Dick. Over the last three decades, he enthusiastically outgrew his old Cape, adding a huge family room,

a two-car garage, a shed dormer, five skylights, a spacious deck, and countless other improvements. His wife, Sandra, soon learned never to make a casual remodeling suggestion. "I'd say to Dick, 'Gee, it would be kind of nice to have another door into the dining room.' Five minutes later, there was a saw blade coming through the wall."

The interior design expresses some version of the Selva's original house. Dick and his family will again have a big kitchen overlooking the lovely backyard, and most of the rooms will be flooded with natural light. "We used to have 63 windows," Dick says. His new Victorian will have 63. But Dullman has also corrected some of the old home's nagging flaws. The kitchen will have a proper no-draws cabinet instead of a knee-bumping bar-and-stool setup. Dick will no longer have to trudge around roof support posts in his basement workshop, thanks to new masonry steel beams and several wood joists that clear up the space. On the second floor, four big bedrooms will replace the smaller quarters of the original house. The new layout

includes a master bedroom, rooms for daughters Jennifer and Danielle, and a guest room, as well as three baths. "In the new house, no bedroom adjoins another," says Dullman. "And three of the four bedrooms will have windows on three sides."

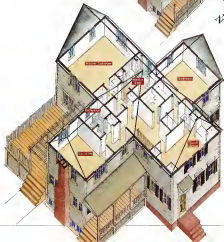
As a nod to the future, the Selva house will be equipped with a cornucopia of electronic conveniences and computer-based networking and security systems. (See "Wired for the Future," p. 54.)

And like the Montezuma house, virtually every inch of the material will be covered with sustainable choices for durability and low maintenance. But instead of plastic, the siding and trim will be made of a fiber-reinforced cement, a product that resembles cedar and carries a 50-year warranty. Most of the exterior trimwork, from the bannocks to the porch railings and posts, will be made of high-density urethane. And the roof will be topped with recycled rubber shingles that look like slate and are guaranteed to last 30 years. These materials not only emulate the look of the materials they're replacing, they're also installed in much the same way. "The art has come of age," says Dullman.

Construction is already racing along as everyone works hard to get the Selva out of their temporary quarters. A 70-foot-long main porch is in the old driveway. Dick, the trim carpenter on the project, is on the job every day, coaxing up the exterior with shingling shingles, or deciding what kind of appliances to put in. "It took me 12 years to get the old house the way we wanted it," says Dick, slicing a 2x6 with a chop-saw. "This one will be right from the start." And unlike the Disneyfied house, the home really has a house. ■

FIRST FLOOR

Building a 21st-century house with 19th-century style has its challenges. Because of the three bay windows and the four wings, for instance, the foundation contractor had to make up a form with 20 corners. Later, the framing contractor asked the editors what he had to contend with nine dormers peeking out of the roof. "It's not a simple house," says architect Chris Dullman.



SECOND FLOOR

The design's new-west side "represents what you might think of as the original house," says Dullman. The pair of flanking additions resembles what an industrious builder-owner might have crafted to accommodate his growing family. The T-shaped opening the bedrooms from one another, maximizing the sense of privacy, and gives every room but the guest bedroom windows on three sides.

Wired for the **Future**

One day, perhaps, Rick Silva will walk into his kitchen and post a screaming cry of pain from the infomarker, which started bleeping as soon as he pushed the sensor button on his alarm clock. If he sees on the list of the milk, the refrigerator sensor will automatically note its absence and add milk to an electronic shopping list, which will be forwarded to a grocery store for delivery later that day. The two-sensor components in the speakers offer self-diagnosis: a reminder message on the flat-screen music center to the sink. Graham mentions jobs on line weather forecasts (producing showers) and notes how easily for your interactive device.

Although these innovations seem fascinating, it may not be long before they become everyday realities. But if Dalk is even to enjoy such innovations, his house will have to be wired for them.

When it's the infrastructure that enables electronic gadgets to work, it should be as crucial to the design of the house as the plumbing and heating systems. But what type of wiring should one install? No one wants to bury anything in the walls that won't be obsolete in a Model T. In a couple of years, although it's hard to predict the direction technology will take, it's fairly safe to assume that for the next 20 years, at least, no single wire will be able to handle all the changes in computers, home theater, communications, lighting, security, and comfort control. Deck will be used to house three types of wire running through his house:

A good starting point is Category 1, or Cat1, phone wiring. It has the capacity to handle voice communication and digital

data (the sort favored by high-speed computer models), as well as security and comfort control systems, and it can do so simultaneously, if need be. At 20 cents a line, CATS costs a lot more than consumer-owned pay phone wiring, but the price is less than justly. The experts encountered at least two of these lines throughout the house, if any wire has a problem or is overloaded, the second will not fail first.

Cable, in case, is the natural choice for connecting video, and will likely be the primary conduit for all sorts of audio, video, and computer services in the future. The best cable—RG-6Q—runs 20 to 35 cents per foot. As with phone wiring, it's a good idea to drive into your home.

Control cable may one day also send sound to speakers, but it's not yet there—shades dedicated to video. Just get the good stuff: thick 12- to 14-gauge stranded copper wire that's well-insulated in a tough plastic or PVC jacket. It costs from about 50 cents to a dollar per foot. Those on the leading edge talk of two-way fiber-optic cable for laser audio and video systems, but the general feeling right now is to let the phone company worry about fiber, paid service, coax, and Cat5 wires will do plenty.

All wiring ought to run directly from a central panel to every room, a hub-and-spoke arrangement that makes finding and correcting problems easier. And wherever new wire or cable runs, the electrician should install them so they can be readily replaced when they're obsolete. Inevitable, they will be. —Chris O'Dell

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A driveway flanked by two elegant rows of trees is a tradition that dates back to Roman times. Although designed to provide a road from the road and weather it also provides an impressive entrance. These trees provide great views of the house and driveway, but many owners forget to plant them at the right time. In fact, many owners forget to plant them at the right time. In fact, many owners forget to plant them at the right time. In fact, many owners forget to plant them at the right time.

SHUTTER

WITH INSPIRED PLANNING, TREES CAN BEAUTIFY, DEFINE, AND FOCUS A PROPERTY

In the woods, nature chooses random places for trees. But in a yard, a more methodical approach is required. The placement of trees determines how well different sizes, shapes, and colors harmonize with one another and better your home. A row of white pines frames a field, turning it into an outdoor room. A single gorgeous copper birch becomes a focal point for a yard. A few well-placed elms provide a graceful canopy over a house and cast a dappled light. "With trees, it's as much where you plant as what you plant," says John Ginger, a landscape architect based in Greenwich, Connecticut.

The key to successful treescapes is envisioning the height, diameter, and silhouette of each species in 10 to 20 years' time. In their zeal to soften a house's steep eaves and fill out a yard, many homeowners make the mistake of planting young trees without considering how their roots and branches will spread. As the years go by and the trees mature, they crowd one another, and some may have to be trimmed. But when trees are positioned properly, they fulfill their mission and provide years of delight. "Trees make all the difference," says Ozzie Bateman, a horticulturist from Rhinecock, New York. "No matter what the architecture, they give a property a lowering sense of life."

BY CURTIS RIST

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A grove of oaks and maples gives this house in Lenoxville, New York, the appealing intimacy of a woodland cottage. Although large deciduous trees take up to 150 years to grow to their mature height, a home built on an undeveloped lot can enjoy a canopy effect sooner and carefully. A rule of green thumbs: Plant each tree as far from a structure as the tree is tall. For example, an elm that is likely to reach 40 feet should be 40 feet from a house. Otherwise, spreading roots can undermine the foundation, and a falling limb may tear through the roof.

PHOTO: GARY WOOD

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A tree isolated within a mass of shrubs, bushes, flowers adds mystery to an otherwise nondescript patch of land. Positioning a single tree or a cluster of closely spaced bushes in the middle of a similar dense or other island will give it a dramatic centerpiece. You can also landscape to draw attention to an impressive tree. The skyline roof system and shade screen by this Norway maple in Bergen County, New Jersey prevented grass from growing beneath it. The homeowners made a virtue of the problem by setting the tree off with a gravel surround and footpath.

FOCAL
POINT

PHOTO © JEFFREY M. HARRIS

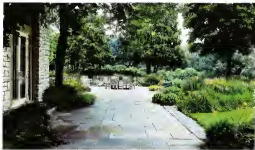
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SCREEN

As this column rises over windows, Wicoma, a cluster of sugar maples provides privacy from neighbors more gently than any fence. But because a string of maples planted 10 feet apart might take 20 years to fill out, consider interspersing them with fast-growing poplars. With a lifespan of only 20 or so years, poplars can be removed as the maples mature. For year-round screening, evergreens spaced 12 feet apart will do the job.



SCULPTURE

Planted in the right spot, a specimen tree, such as this apple tree in Westchester County, New York, can turn a grassy area into a botanical composition. When arranging the elements of a landscape, remember that perfect symmetry is not necessary; a line becomes more compelling if slightly off center. Followed by open space, a specimen tree functions as a living subject of art, particularly if it's of great distance or if, like a statue's body, it reveals spectacularly gnarled branches in the winter.

PHOTOS: BOB LANGRISH

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You can plant small ornamental and dwarf varieties as close as 4 feet to a house or patio with no worry about spreading roots. Gift, small trees, such as this cherry in a San Francisco courtyard, need pruning to keep branches from reaching up against the house, which could cause damage and other damage. Typical plantings include dogwood, crabapple and...for brilliant accent color...maples such as the Japanese red maple. "But if you're looking for low maintenance," says Gregg, "native species are the best because they're naturally adapted to a particular climate."

ORNA

PHOTO: GARY HARRIS

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back together again



A devastating fire in an 18th-century farmhouse gave its devoted owner a chance to restore more than his home

"No way," declared Norm Morris.

America's show-biz-buffet stood in the cluttered living room of a burned-out white box in Ipswich, Massachusetts, shaking his head at the prospect for making a livable once again. But when Norm delivered his assessment to the owner, Charles "Chubb" Whitten, the 40-year-old industrial property developer just smiled. Computer and musician, and a business of a man—"I'm Type A plus," he says cheerfully—Whitten had already decided to rebuild his circa 1773 house when Norm and Steve Thomas dropped by in the spring of '94 to see it up as a potential TV project. He listened politely to Norm's rationale. Not only would the renovation take far longer than the show's season 6 production schedule, it was most likely doomed to fail. "It needed a lot of cash out, and even I never would again," Norm told him. "You'll never get the small out.... Pull it down and start over."

But even as Norm desisted, Whitten spotted on a blackened chimney beam and imagined himself tearing off the floppy black shingles. Now, just one year after the show passed on the project, Whitten stands triumphantly in his restored post-and-beam living room. He points at the meticulously plastered ceiling. "A year ago, you could see right through to the sky from here," he says. "We lost most of the house, but now it's better than new."

And so it will? "None," says Whitten, and he's right. Throughout the 4,300 square foot house, once upon a glory of hand-placed beams, pine paneling, and tightly mottled brick, not a whiff of smoke remains. In the living room, only the tang of fresh wood on the newly laid floorboards hangs in the air.

"This whole experience proved that you should never give up on something just because it looks hopeless," says Jane Adams, Whitten's co-wife. The remark bears not only on the reconstruction effort, in which the devoted owner long hours herself, but to the couple's relationship. She and Whitten had already begun a reconciliation before the fire, which the original helped strengthen.

Whitten was not a doing vacation in Utah when the blaze broke out. It was March 5, 1996, and, following a walk in the hot tub, his house-keeper and four



Restored: A fire that seemed to be taking a year off most of its structure, the second front, leaving the high second stories and more of the roof, was still. Making the house livable took more than a year of hard work, but it also gave Chubb Whitten and Jane Adams time to work through some problems in their relationship. They play with their Lab, Whippy, in the backyard.



New framing for the roof floor and the roof allowed for old methods of roof and beam construction. The owner's insistence upon authenticity even led to the use of cut-log out nails, just like the ones used nearly 300 years ago.

friend's house nearby. The fire was still smoldering when a neighbor called with the news. Alaska rushed to the house. "She basically took charge," says Whitson. She even went inside with a fireman to remove her ex-husband's fishing logbook, which contained a lifetime of notes and remembrances. Then the pair set a call to Whitson, who immediately flew back.

Waiting so long on communications or repairs, Whitson tore into the house with characteristic gusto, prying loose and stacking a way countless usable pine planks, wide plank floor boards, and old clay brick. "Jane and I moved about 35 tons of material into the Dumpster, but we also saved quite a lot," Whitson says. "The plan was to incorporate the salvaged into a new house that we'd build on the site. But as we kept removing material, going up and down the stairs, I started thinking, 'Hey, maybe we can rebuild this thing.' After about a week, I was sure."

Which is when Douglas Norm entered the picture, although he was far from the only helper. "Everyone said I was nuts," recalls Whitson. Mike Deacon, who signed on as the general contractor, remembers his first visit to the site: "My overwhelming inclination was to run away screaming."

But Whitson brought relentless optimism, energy, and tenacity to the task, as well as two rather big pluses: a \$375,000 full replacement-cost insurance settlement, and his experience in construction. "I know how to manage a project," he says. "The Bureau and estate market was going crazy anyway, so I took a year's leave of absence to do this."

Working with three crewmen, Whitson and Deacon continued hauling every scrap of usable material. "We were pretty picky about saving everything we could," says Whitson. "I wanted to be true to the house." But as the crew stacked with crowbar and reciprocating saw, they found ever-surprising finds, sometimes huge. "The house was burned above and notched below, and the space in between was all torn up by earlier remodeling efforts," says Deacon. "When previous owners wanted to add bathroom plumbing and a beam was in the way, they'd just cut through it or saw it out."

Since buying the house in 1993, Whitson had updated the plumbing, heating, and electrical systems, but he'd never found the time or money to fix the foundation. "Under the living room, it was just four or five big blockiers sitting on the ground. There was no footing and no crawl space at all," says Deacon. "The whole house was sinking

of her friends had heaped a dozen four-foot logs in the living-room fireplace, and hunkered in front of it before heading upstairs to bed. But while they slept, the blaze grew. A wooden lintel over the hearth—which had soon, and survived, one of thousands of fires over nearly three centuries—got hot and sent flames up through an attic roof and into a pile of second-floor closets. Smoke seeped the floor, who dashed onto the lawn.

"Within one minute of their getting out, the whole place was smoking," says Whitson. Flames burst through the rafters of both the original section and an circa-1990 gabled addition. Tracks from three downers dumped water on the blaze for eight hours. When the last flame was doused, the entire roof was either black or gone, the second floor was a charred shell, and the first floor had been devastated both by fire and by water that leaked the maple flooring and soaked the plaster. "Basically, the upstairs was gone. Add in the water damage, and 70 percent of the house was ruined," says Whitson.

By pure coincidence, Maize, 36, was spending the night at a friend's house nearby. The fire was still smoldering when a neighbor called with the news. Alaska rushed to the house. "She basically took charge," says Whitson. She even went inside with a fireman to remove her ex-husband's fishing logbook, which contained a lifetime of notes and remembrances. Then the pair set a call to Whitson, who immediately flew back.

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It took a clever idea that to the owner about the Alaska Region, the wood-burning around the fireplace was heavily damaged and only needed cleaning and refueling.

furnishing the fireplace

After rebuilding his house, Quab Whitson had to rebuild it, too, since almost everything had been consumed in the fire. Working with Whitson and Alaska, this Old Alaska outfit on local antique dealer Andrew Spiller to help outfit a few rooms with prized pieces and Quab's rug. In the living room (opposite page) a 18th-century Pennsylvania German farm bench and two matching slipper stools create a graceful seating area around the hearth. Here are some other stools that would pair perfectly for evenings beside a fire.



Winifred Cady's classic curved stool in chocolate leather



Brown back with rolled arms and a lower seat cushion, from William Wood



A Shiloh Morris chair with an oak frame, from E.J. Arch



Making Quab's streamlined wing seat-brace with hand-crafted and vintage



Edna Allen's Art Deco-inspired rocking chair with Danish upholstery

Take the rest of the house, the new kitchen has its share of salvaged materials. The island was made from an old workshop table found at a flea market and then topped with a fresh slab of butcher block. The chairs and counter from a house that was being renovated, brought in by a workman who passed, correctly, that Whitman might want it.



around the fireplace, and there was also just two inches under the living room floor. We dug it out with shovels and five-gallon buckets." After picking up the house, Whitman poured a concrete foundation, complete with crawl space, for the living room, then reticulated and repoured the pressure foundation under the rest of the house.

From the start, Whitman was confident he could vanquish the medical smell, which, as Morris had noted, is where most burn-oncations fail. "My industrial construction background really helped in that one," says Whitman. "You're supposed to scrape off the char by hand, but this takes too much time. I had one of my guys come in and sandblast the six weeks. There was sand everywhere, but it really worked great." After such charred framing members in wall panel had been blasted back to clean wood—as an extra to as possible—patients sealed the surface with shellac to encapsulate any remaining odor.

With the foundation solid, the second floor came off, and the wall sealed in. Whitman and Deaton began rebuilding the upstairs frame. "We decided what could stay and what had to go based on common sense and advice from a structural engineer," says Deaton. Using red oak beams brought in from western Massachusetts, Deaton, Whitman, and timber dealer Robert Wetherill began grafting a new structure onto the old, creating a knot of posts to hold the new roof and its 17-foot-long rafters. After framing the upstairs, the two worked their way through all the corners of the first floor. "Every wall in the house except the front wall of the last floor was either replaced or repaired," says Deaton.

Throughout the job, Whitman showed clients all modern construction materials; the house is a piece to 18th-century technology and techniques. One example: Though the sheetrock—sandwiched between the clapboards and the plaster walls—is invisible, Whitman and Deaton made a majority of inch-thick pine boards rather than plywood. That's machanicism enough, but they also fastened those boards to the framing with cut nails, exactly like the ones used in the original construction.

"That's just nuts," says Whitman proudly.

"But we were both into it," adds Deaton with a grin. "We kept checking, where some guy tests this place apart 100 years from now and tries to date the construction, this will really confuse him."

With the skeletons and sheetrock in place, the men moved on to the daunting finish work. Deaton, though a veteran of dozens of major renovations, had never tackled an interior quite this challenging. He recalls assembling the first stairs.

"I laid out a yellow random, wavy-plank pine on the living room floor and spaced it about 45 inches before I started. I had to march them out like by machine." Whitman carries a hand-carved pine banister. "We just had to keep these stairs."



Only partially damaged by the fire, the screened porch off the kitchen just needed a new roof and a coat of paint to restore its role as a sunny weather dining room. The French doors and shutters, now installed at a nearby prep school, bring more light into the kitchen.

While the blaze destroyed the second floor, water from firemen's hoses did its own damage downstairs. In the kitchen, the plaster ceiling and walls, as well as the second floor, were beyond repair, and the 17th-century wooden beams were soothed away. In the main area, paint, replaced with ash plaster, replaced, and filled in to form a new ceiling that was more in keeping with the house's style.



That reverser for history guided virtually every decision. When laying the wide-plank oak and pine floors, Whitten and Deane carefully placed the glue-on boards on the joists between doorways to reflect what 250 years of foot traffic might have done. Many windows are new, but they're glazed with antique mouth-blown glass. The window screening is old-fashioned bronze net. It glows gold in the late afternoon sun, but in a few years the ink will fade from nearly Spanish Bay, Whittier products, "it'll make it green up more." Throughout the house, wherever he couldn't replace viable woodwork with a piece from his personal inventory, Whitten and Deane used reclaimed wood purchased from a Vermont dealer to get the appropriately aged look. New pieces were created to look old (see box).



The near-total destruction of the second floor allowed for some key, not changes where it was rebuilt. Relocating the bathroom to its site of a former bedroom gave the chapter tub a larger, brighter home.

We always freeze in winter," he says. "But now that it's all closed in and insulated, the place stays warmer with four radiators than it used to with 20."

Construction ended in March 1999, almost exactly a year after the blaze, and Whitten, ever the hard-charging project manager, spent only \$35,000 more than he got in the insurance settlement. "The whole thing was a positive experience," he says. "Before it burned, the house needed a good \$200,000 in work, and who knows where I would have gotten to? Now all of that and more has been done."

Another positive result: occasional heavy-timed patients and hand-placed woodwork. As Whitten and Deane worked side by side to bring back the house, they also began reexamining their relationship. "Rebuilding the house was very cathartic," says Deane. Will she be moving back to work Chabot? "We're talking about it," she says. ■

Making new wood look old

When Ghislain Whitten conducts a house tour, he likes to play "spot the new wood," challenging visitors to identify which wall panels are original and which are not. In fact, about half the panels are new, but, he says with a grin, "people can't tell these apart."

To begin the deception, builder Mike Deane took a hand plane to some 18th-century pine Whitten had bought, adding softwood-looking shavings. After all the pieces were finished, master millwright David Tashenewsk worked off the pieces with a solution of bleached phosphoric-free talcum powder to one gallon of water—he even cut the ratio. When the panels were dry, he sealed them with 100-grit paper and brushed on a coat of clear shellac.

"This is no process," he says. "It makes up two-inch shavings unless you seal it."

Then Tashenewsk made four shavings with a different mixture of shellac, denatured alcohol, and pigment—that ranged in color from wash tea to strong coffee. "I'd wipe on a color, and the shellac in the mixture would seal it," he says. "The alcohol dries in two minutes, so you can add layers until you get the tone you want."

When the colors were right, "the shavings still looked patchy," says Tashenewsk. So he brushed on two coats of orange shellac, rubbing the second coat with fine steel wool. Finally, he applied two coats of clear wax. "Ghislain wanted the walls dull, so we buffed the wax lightly to create a soft sheen," says Tashenewsk. "It's the right look for the house."



After the fire gutted the dining room, 1877, the owner tried to save several first-floor walls—and rebuilt the entire second chimney, creating a hybrid-modern result that measures 30' by 18' in the base. It contains flues for five fireplaces as well as the heating system boiler.



With its wide plank flooring, ornate paneling, and old wood beams, the dining room is like an English club. (Lively comes mostly by tone, much less gain) by fire



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VANE GLORIOUS

BY JOSEPH D'AGNESE

Weather vanes take on fresh form as they once again dress up America's rooftops

Toad Ball
The party never ends for this copper and gold-leaf vane, whose form was inspired by the owner's childhood nickname. It was custom-made by Travis Tsak, a craftsman who works at Martha's Vineyard.

PHOTOGRAPHS BY JAMES MORRELL

Weather vanes take
on fresh form as they
once again dress up
America's rooftops

Tyrod Hall

The party never ends for this copper and gold-leaf reunion, whose form was inspired by the owner's childhood nickname. It was custom-made by Tivie Task, a craftsman who works at Martha's Vineyard.

PHOTOGRAPHS BY JAMES MORRELL

TWO TURRETS rose majestically above the rooftop of Susan and Linda Hellman's new Colonial in Cold Spring Harbor, New York. But when they were told on the architect's drawing board, Susan felt they needed something extra, and he knew precisely what. A serious baseball fan who attends 15 to 20 Yankees home games every year, Hellman had long coveted an object mounted on a flagpole behind left center field—a weather vane shaped like a ball and bat—and he duly wanted one just like it rising above their house. Linda liked the idea of a weather vane but had a different idea about what it should be. "I thought it would be nice to do a banner with an H." The two wives resolved their dispute, and a pair of vases were scuttled.

The Hellmans, like most home owners with a yen for a weather vane, weren't motivated by meteorology. Just as we salute the star as a Christmas tree, we love weather vane for the crowning touch they provide.

Much of the weather vane's charm undoubtedly lies in its rich history. The earliest known one—shaped like the sea god Triton—sat atop the Tower of Winds in ancient Athens. The more familiar model—the rooster—first

adorned church steeples and reminded the faithful of Saint Peter, who denied Christ three times before the cock crowed. The rooster was simple. Rebuild the rooster, all ye sinners, and come to church.

In the New World, tradesmen of the 17th century began using weather vane as advertisements. Housemen approaching towns could scan the skyline for the goods and services they needed. The banner and arrow led them to a blacksmith. Blacksmiths worked below the town. In time, everyone from the tobacconist to the dairyman displayed recognizable emblems. Besides their commercial uses, weather vane were designed to express everything from superstitions (a witch on a broomstick was common) to noble beliefs (a dove carries its olive branch atop George Washington's Mount Vernon).

Today, the weather vane's main function is a decorative one, but 17th- and 19th-century designs remain popular. Horses, eagles, pigs, and fish abound, although contemporary weather vane are just as likely to commemorate an individual's passion as his profession. Tiersa Bick, a weather vane enthusiast in Marblehead, Massachusetts, once built a work for an aboriginal. But he's also made models of an airplane, a rooster in a single scale—a image inspired by a Thomas Edison

PEAK CHIC: A WEAT



Custom

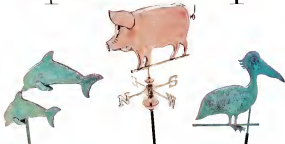
Hand-crafted weather vane can reflect any personal taste, hobby or historical example. Examples: Weather vane's copper and brass designs, left, and their vibrant glass arrows, right, recall Victorian-era motifs. For sea clients, metalsmith Michael Sargent modeled this copper plane, below, as a submarine camouflage plane from the 1940s.



HER VANE SAMPLER

Catalog

Catalog operators like Wind & Weather journeyers of the pine trees, pelicans, and chicken pieces and signs of the Cross (the pig and mounted rooster a variety of ornamental copper and aluminum weather vane). The available styles range from traditional symbols to purely contemporary inventions.





THE \$79,000 WEATHER VANE

That was the last time this 19th-century settled copper bell-shaped at the local American collector at home John Gurnham when it was sacrificed off at Christie's New York last January. But even at that price, our Indians didn't get close to selling a record. That this is held by a circa-1900 case that sold for \$770,000 in Boston this art dealer Stephen Spivey in 1998. Already alleged to collector's studies, this "fabulously elaborate" mini-sculpture is gilded copper depicts a man dressed in a top hat and tailcoat, holding a smoking pipe, with the man's buttons and the strands of the beard's "wires" clearly articulated.

What's made weather vanes such valuable loot? Although they were so common on houses and barns in the 1800s, as few as 100 remain, and many have suffered 100 or more years' exposure to the elements and served as targets for vandals and vandals alike. "They're often full of leaded glass," says Susan Klineberg, director of American folk art at Christie's. "So they don't have that problem of being so easily damaged, because the leaded glass is the most at risk." And, both the bottom and the top of the vane are usually made of leaded glass, which is the most vulnerable part of the vane. "The most vulnerable part of the vane is the leaded glass," says Spivey. "The most vulnerable part of the vane is the leaded glass." "The most vulnerable part of the vane is the leaded glass," says Spivey. "The most vulnerable part of the vane is the leaded glass."

Top Job

A weather vane may respond to the slightest breeze, but it also has to withstand the fiercest gale. The van must be sturdy, and the installation secure. Under glass is the all-important first step. Says meteorologist Al Denninger, "A weather vane should be mounted on a point as high and unobstructed as possible. That will give you the most accurate reading." For vanes installed over an attic,



drill a hole equal to the spindle diameter through the ridge beam and a valley tie, while in the spindle, and install it with plumber's flanges, making sure the spindle is perfectly square. When the spindle emerges from the roof, seal against the roof shingles with tar or caulk, and seal or start shingles with copper flashing. When a through-the-roof metal isn't possible, the weather vane can be installed on a bracket that straddles the ridge. The directionals—which, of course, do not turn—should be set so that "N" points toward true north. But on single-bowl? Multiple or compass north will do just fine.

passing—and scale models of a pair of America's Cup vessels. The most accessible recent commission: a four-foot tall sculpture for Steven Spielberg.

To pull off such a visual reference, a master vane maker must be part meteorologist, part folk artist. Al and Beth Denninger, who have been fashioning weather vanes from sheets of copper for more than 11 years, created the Hillman's van in their Middletown, New York, workshop. For every commission, Beth, a former milliner, starts by sketching the client's idea, while keeping one basic principle in mind. To properly read the wind, two-thirds of a vane's surface area must be behind the spindle, the sturdy, stationary rod that's fastened to the roof (see "Top Job"). When the wind hits, say, a rooster vane, the two-thirds behind the spindle screen the gusting force of the gust, opening it in the direction the wind is blowing. That leaves the head pointing into the wind, which makes sense considering that we express wind direction in terms of its source—a northerly, for example, blows north, not south.

Working from Beth's sketches, Al—a former farmer—scapes the pattern out of copper sheets. For the most common type, a "swirl-bodied" weather vane, he softens the metal with a mallet, then, and then he uses a technique called "spinning." After pouring out both sides of the figure, he solders them together and welds the piece to a horizontal brass support frame, which is usually incorporated into the design, it may be, for example, the shaft of an arrow that an eagle stands on. When it's finished, the finished piece turns on a stainless steel spindle rod topped with a single ball bearing. To ensure that it can spin freely, the van's feet and a bit must be perfectly balanced around the spindle. Because the feet are small, Al usually adds weight to it by using heavier gauge copper, welding brass rods or bars to the frame, or pouring molten lead inside the figure.

The craftsmanship practiced by Tuck, the Denningers, and a dozen or so other American vane makers prices their range from \$1,000 to as much as \$10,000. And in today's money economy, well-built clients may have to wait two years for their commissions to be completed. For smaller budgets, there are weather vanes that can be shipped within weeks, if not days, of an order. But aluminum vanes made to look like blackened wood or copper cost about \$300 and last for many years. In careful, however, with exposed, machine-welded copper vanes, unless they're constructed under strict specs for reputable American manufacturers, wind and weather can pack their up piece in just a few years. Hand-finished, heavily soldered copper vanes that cost

from \$250 to over \$1,000 are available in direct of design from several mail-order catalogs and can spin at the wind for 30 years or more.

Whether it's a rooster, a sparrow hawk, or a birdhouse, almost every vane looks great up close. But says Al Denninger, "people forget that they look a lot smaller when they're on a roof." That's why, not just, is his simplest sell. "They think we're just trying to take them into a bigger size." The standard size guideline is an inch of height on length, depending on the shape, for every foot of elevation. Denninger's rooster goes even further, ending on wooden 25 to 30 percent, sometimes more. For the Hillman's 28-foot high figure, he finished it with a bar that was 4 feet long, and a base 1 1/2 inches in diameter, large enough to show off in soldered sections. And although Linda's sparrow hawk flies over the three towers, it's the spot model that was rarer. "We were both trying to get a little bit of something out of the house," says Spivey, buying the rooster. "The weather vane definitely do that." ■

FITTING TRIM

In a house that rings with style,
moldings supply the grace notes

Trim is the bane of architects. Whenever the junction of two planes results in a ragged edge or an unsightly gap, a length of molding—neatly shaped and carefully installed—closes the breach. Trim can also play visual tricks, such as gracing the division of height to a room with a low ceiling or adding drama to a bland expanse of wall. At *The Old House* magazine's Dream House in Wilton, Connecticut, the delightful profusion of trimwork—ordered inside and out in wainscoting, paneling, cornices, arches, brackets, and other superbly executed details—makes the

BY BRAD LEMLEY
PHOTOGRAPHS BY ANDRÉ BARANOWSKI

Decorative columns that side with the Dream House's roofline also define the rounded passage between the master bedroom and a second-floor library.



MOLDING MADE TO ORDER

"People don't realize that custom ink is as big as food," says David Weiss, president of Gary Frome, a custom ink manufacturer in New York City. "People don't realize that custom ink is as big as food."

Not surprisingly, Alexander Hamilton at Kuntze Woodworking agrees, and he's got the numbers to prove that a custom order can be affordable. "Making a set of tables costs \$180 to \$200," he says. "If you buy more than a couple hundred feet of material, at \$2 to \$3 a foot, it's more than worthwhile." If you need less, consider using stock material; see "Stock Orders."

Custom molding starts with a profile—it can be an architect's drawing, a simple traced outline, or even a few inches of original trim-piled from a wall. A millwork maker uses the profile to cut out a template on sheet steel or thin plyboard. That, in turn, guides a blade-grinder, which works like a pneumatic key-holding sander, cutting the physical profile into a steel blank.

Depending on the complexity of the molding, up to six four-flute knits rolls may be needed to shape it. Mounted on rubber heads in milling machines the size of a small car, the knives whir at 4,000 rpm, sculpting ribs at about 30 feet per minute. Different toolheads produce the same results as curved moldings by round windows and jettied beaches.



beast, silver A piece of sodium metal, say, and the blade (left) and impeller and its product of This page: A close-up of a sodium metal impeller.



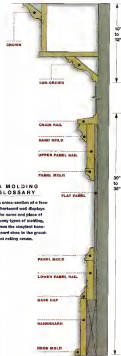
"I know from my experience that rain is crucial—it's literally what will die or thrive," says owner Wilbur Crowell, who builds high-end homes throughout western Colorado. "It has to be right."

And here, right across abundant Finnish carpenter Mike Doran and his crew have painstakingly nailed more than a mile of machine-made poplar along walls and around doors and windows. The 6,000-square-foot house is divided into 21 rooms, plus hallways and closets, all of which use great quantities of casing, crown, baseboard, and other types of molding chosen from a vast assortment of profiles.

Yet despite the amount of room—detailed in 20 pages of Dutton House blueprints—it doesn't seem excessive. Each corner turn or sliding glass yields an unobstructed pleasure: the aqua chair rail, the half-sun window seat, the bend-board mantels in the tower entry—all of a richly varied, yet completely coherent, touch. That's because Dutton House project architect Gary Fowler bases his room designs on centuries-old rules of balance and harmony.

"Up ward the 1930s," says Browne, "virtually all of the firms in American houses was based on the classical orders: Doric, Ionic or Corinthian." Those formal orders grew from another insight about what people find beautiful and well proportioned, which is why "even middle-class dwellings from the 1920s feel right," says Browne. He believes that modernism, with its emphasis on simplicity, has deprived architects of an under-

Special treatments The ceilings around stairways are tipped with cream molding. In an upstairs hallway, even the ceiling was painted that with lengths of string.

A HOLDING
GLOSSARY

A cross-section of a free-thrinking well displays the same old plain of entry types of trading, from the simplest barter done in the grand old trading room.

伊本·阿比·希拉, 先知传记

LÖWEN PABST, S.A.

圖書分類 新編

SLAPSHOTS

1999年12月



more expensive, public rooms." Because the children's bedrooms are much simpler, the materials and labor costs for creating them are much lower. Just as you can upgrade and highlight, it can also easily devalue elements. For example, in the master bathroom, which has no fewer than four doors, a massive, apparently seamless casing frames three of the openings into a beautiful whole. Similarly, because the house is situated on a slope, some dining-room windows are not on a level with others. Putting higher casings on the lower windows makes them appear even with the others.

Topped with a lightly stained olive oil, customizing comes easily by a window seat. The base of a panel molding helps integrate the bench into the design.

Still, the most aesthetic criticism will be wasted if the material shrinks, bends, dings, or rips. That's why choosing high-quality wood ranks as the top priority in a run-of-the-mill Lambeau stadium. Lambeau stadium typically fill this order with heartboards and crown moldings made of new-growth, wide-ring pine, but the pine-laboring-on-or-Dream House missed on superior stock.

"Redwood, mahogany, and Spanish cedar are the best choices for outside use because of their resistance," says Alexander Hamilton, whose millwork in South Norwalk, Connecticut, supplied most of the Dream House's complex, carved trim elements. "Redwood is best inside because it's fairly stable, relatively inexpensive, machines well, and is

STOCK OPTIONS

"Stock molding" brings to mind the pre-made lengths of, say, cedar rail, sold at lumberyards and home-supply stores. But clever homeowners can create their own beautiful profiles by borrowing an old architectural trick: layering inexpensive stock components—available in dozens of shapes in pine, oak, maple, and other species—to create distinctive, sumptuous details. In give it a try, FOUR editors went to a Connecticut lumberyard to find some moldings that could be combined to make a fireplace mantel. The result, shown at right, mixes pine crown moldings with slightly more expensive maple casing, all for about half the price of a custom-made job. "Don't consider stock pieces individually," says Dream House project architect Gary Brown. "Think of them as parts of a kit."

Another way to economize is to have moldings cut from kilns that a millwork already has in stock. Since millwork incorporates such leads from a custom job into their inventory—be it that wood-working, which made much of the Dream House trim, less more than 1,000—there's an enormous array of molding samples to choose from. "Our suppliers had no stock profiles," says Brown. "It was only when we didn't find custom alone we could get very close to the look we wanted with stock"—and got it at significant savings.



PHOTO BY GARY BROWN



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The Charge of the Tool-Belt Brigade

This Old House and a team of community volunteers overhaul an aging Colonial in Connecticut



These OM Hines team members are Connor and Miriam Silver. Inside the clipboard alongside professional painter Thomas Sorensen and landscaper (from left) Katherine Orlando, Agnes, Michael Taylor, and Carlos Colon.

Shortly before 9 a.m. on a warm spring Saturday, most of the residents on Ohio Street in Norwalk, Connecticut, are probably pouring their second cup of coffee. But not Lynette and Gregory Brayboy. Their quaint Colonial has people crawling all over it—hanging off ladders, crouching on eaves, poking around the basement, climbing attic stairs, testing outlets, hooking up appliances. Stacks of 2x4s and cans of white paint fill the driveway. Somewhere a boom box is playing Marvin Gaye. The Brayboys stand on their front lawn, watching the throng grab brushes and scarf doughnuts. "Thank you," Lynette says, beaming and shaking her head. "Thank you for coming."

With its distinctive gabled facade and white-painted fence, the Bayleys' three-bedroom house exudes a cottage-like charm. For peeling paint, a leaky roof, and faulty wiring have made the house miserably uncomfortable and even hazardous. Today, *The Old House*



Homeowners Gregory and Lynette (top) standing with daughters Leticia, 32, and Leticia, 14 months, check their spread-up house. "It's lovely," says Gregory. "We're going to keep the house maintained. We're enjoying it, and it's a nice feeling."

the Bayleys had known for a year that the place could use some work, but eagerly the house needed a work of care and Lynette opened a closet after a storm and found water seeping in. But money was tight. Lynette had recently lost her secretarial job. The couple had one young daughter and a second on the way. Gregory, a security guard, had little left of his salary once their basic needs were met. When a friend told her about AmeriCares, Lynette submitted an application and prayed. "Even if they had agreed to do just one job—the roof," she says, "that would've been fine."

But AmeriCares doesn't do things halfway. Brown and his work crew went over 400 applications and whittled them down to 140 projects that were best suited for six weeks. After visiting the Bayleys' house, Brown's crew decided they could repair—*not* just fix—the roof—we needed to achieve the organization's goal of making each house "safe, warm, and dry." The day Lynette got a call informing her that

they'd made the cut, she was overjoyed. Says Gregory, "All we needed was a little help, now here it is."

One week before the January earthquake, this *Old House*'s team of volunteers prepped the house, scraping paint and cleaning surfaces. In the following days, professional tradesmen donated their services. Roofers stripped, sheathed, and reroofed the front pitches, an electrician updated the wiring for switches, outlets, and lighting, and landscapers removed overgrown vegetation, including a dead maple hovering precariously over the garage.

Now, a week later, another team of volunteers has arrived to put on the finishing touches. In the kitchen, two technicians hook up a new electric self-cleaning oven and a refrigerator. Outside, landscapers shape beds and plant hydrangeas, Japanese holly, azaleas, and rhododendrons, while professional painters handle tricky spots requiring non-toxic paint. In the next, two editors establish a steady ceiling and add a basement. An advertising sales director replaces a loose lock on the back door. On one side of the house, six people from the magazine's circulation and marketing departments work together, paint brushes laying away. One hour, 20-year-old Katrina

Boyle, making straight her parents and wearing orange gloves, leads her brother and takes a two-handed swipe at the garage door. "Before, the house was all messed up," she says. "Now, I feel good." Still, the volunteers use not a hour to put the experts out of work. On the back porch, Silva coaches an eager crew through the construction of a porch platform with railing and steps. "Uh, don't swing a hammer with your wrist," he tells one helper. "Swing with your arm and don't look at anything but the end. If you don't look at the end, how can you hit it?"

"Hey, Tim," says an AmeriCares organizer. "Looks like you got your day crew out today."

"Yeah, right," Silva deadpans.

Deputy editor Lester Fisher Kneer studies a board as Tom Silva comes together a section of the deck with a deck-siding director Gregg Bassano looks on.



Production director Carolyn Kitchner White pulls a Tom Sawyer, persuading Lutherman (front) and Patrick Mackay, friends of the magazine, to join her on fence-painting duty.



When the team begins for lunch, Tetherway and Silver hit the road to inspect other ActiveCare jobs. In T.O.H. host Steve Thomas has done all morning. They look in, impressed, at amateur handy-men—teachers, housewives, doctors, and lawyers—refinish entire rooms, hang windows and doors, and lay down floors. In a depressed section of Ridgecrest, Connecticut, Silver meets Alan Smith, a grandfather and father parent in her life who was wrapped in a blanket on a neighbor's front porch. More than 100 pendulum doors had already to 4 away on her home across the street. "I'm watching them work, and I do appreciate it," Smith tells Silver. "I raised 17 children in that house."

By the time the kids wrap up, the T.O.H. crew—together with 133 other teams—have restored 114 houses and 28 community centers. They've gone through 10 tons of plywood, 3,400 gallons of paint, and 5,000 square feet of flooring. By late afternoon, 9,000 volunteers are packing their tools and heading home with paint splattered clothes, a few aching limbs, and a palpable feeling of accomplishment.

Back in Newark, with the firefighters' paid cleanup of people and debris, the view of their house is starting. A freshly shingled gable sweeps down over sparkling white drapery. The house peeks over a manicured yard brightened by plants in bloom. Gregory hangs black shutters at the windows. "I just want to get these up and take a look," he says. "It feels like a different house."

His wife seems moved beyond words. "We couldn't have done it without them," Lynette finally says. "They were like angels." ★

OTHER PROJECTS

NY: FIREMAN, NEW YORK

Carl Farnsworth strips old plaster down to the lath in Trinity Church's former rectory. Meant for the last 12 years, the 1930 building will serve as a support center for teenagers, grandparents who raise grandchildren, and victims of domestic violence.



MASSACHUSETTS, CONVENT

Twenty members of the Boston City Club Battery Club—including a lawyer, an architect, and a former dancer—rebuild the roof, paint the exterior, and install new sinks, kitchen cabinets, and a toilet.



MASSACHUSETTS, CONVENT

"You're going to make me cry," Lillian May says, accepting flowers from the crew—10 volunteers from a local bank and a home-improvement store. They joined for Junior's activity, refinished the roof, replaced windows, fixed up new appliances, and installed a kitchen sink.



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SPLENDOR IN THE GRASS

IN THE LAND OF SHINGLED ROOFS, THATCH FINDS A HOME



Bill and Kathy Kluge's romance with thatch started on a barge trip vacation up England's River Ouse. At each landing, they saw clusters of houses topped with thick mats of reed trimmed as neatly as beards. Totally smitten by thatch's rustic charm, they decided to do the same thing to a stone outbuilding next to their 17th-century New Jersey home. When they returned, they asked their architect, Ed O'Brien, if he knew of

BY JIM MORRISON

PHOTO: JAMES HARRISON



In this world, a perfect storm for the perfect thatch (cattail tops) which once was topped with wood shingles. In that world, the lightweight bundles of reeds and thatch can be used to be used to be used, just as it is in the 17th century.

a thatcher. As it happened, he did. A self-taught Irish chap named William Cahill had been through the war five years earlier and needed some local skills with his hands. (Thames still had one.)

That chance encounter landed the 37-year-old Cahill, one of the country's few working thatchers, on the King's steep-pitched cottage roof, where he has spent the latter part of a month spig, down, shaping, and trimming bundles of fragile reed stalks into a woven mat of a fancy tale. Cahill has done hundreds of thatching jobs, both in this country and his native Ireland, but he still appreciates the material's elemental appeal. "Thatching is romantic," he says, his bling brogue transforming "thatch" to "Fench." "It's a direct link to the past being done in the present."

Thatching has been a fixture on roofs in Europe and Africa ever the Stone Age. Farmers used whatever grass was their drive, cheap, and easily harvested by a sickle, including sedge, reed, straw, or water reed (Cahill's favorite). No expensive nails

arise. With the leggett and Dutch mat, he cuts at hand. William Cahill shows a look through a bundle of thatch, once possibly holding it in the dark undergrowth. Before he covers the roof peak, he will subside off the remaining reed with an electric hedge clipper.

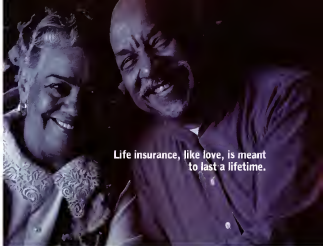
were needed, it was simply tied to padlocks—horizontal reed stems—work lengths of log grass. Although only settlers brought the skill to the New World, thatching died out in America as soon as the colonists learned to make wood shingles. (One place to see how it was used here is at the historic re-creation of Virginia's Jamestown settlement, where Cahill shingled a church roof.)

Ireland and England, however, still have tens of thousands of thatched houses, and the Irish government runs a program that includes training in this almost-lost art. Cahill, a Galway native, studied in the course after high school and found himself drawn irresistibly to the craft. "I think it was the solitude of it," he says. "And I liked the pace." As an apprentice, he progressed along Ireland's west coast, discovering the different techniques used by the old men and developing his own. In 1986, he and his two brothers, Michael and R.J., landed a job thatching a Cape Cod barn, and spent the next three years working as itinerant thatchers. When his business blew home, he stayed behind to scratch out a living in the land of shingled roofs. By 1991, he had settled down in Gloucester with his wife, Mary, and started a family—but deared for his skills



Many of Cahill's tools are modern adaptations of those that thatchers have been using for centuries. He brings his own steel fork (1) as a harrier's comb, these keep the bundle's reed and his teeth from sliding off roofs. The leggett (2) and the Dutch mat (3) are both used to drive the reed tightly under the reed that holds the bundle in the roof. This leggett's head has a rough with brass finger, the mat is heavy with upstaying fork. Cahill splits and shapes which barrel branches into apple-like spurs (4) with a hooked-made knife, known in Dutch as a skew. (5) He hammers in the spurs into the peak with an everyday rubber mallet (6).

PHOTO: BOB BROWN



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TOP Most people don't notice the subtle slope in the angle of the roof projecting over the eave, but Cahill still climbed down from the roof again and again to make ground-level adjustments, and then went back up to make adjustments. "I like the architecture of the hill, the softness of it," he says. "I never got tired of looking at it."

can pull him away for weeks at a time. Despite the pressures of his schedule, the rhythm of his labor remains gratifying, unbroken, deliberate. "A lot of people could like things done instantly," he says. "This is slow work."

That's an understatement. Just acquiring the material takes weeks. To prepare for this job, for instance, Cahill and a couple of helpers hauled into the marshy side of southern New Jersey to harvest the reed and tie it into long thin bundles. They had to gather enormous amounts: The Kluge's little 1,600-square-foot roof required about 1,600 bundles, or roughly ten acres of reed.

"Landowners are happy for me to go in and take it," says Cahill. "It's very invasive, and grows back quickly." Then there's strenuous prep work. Before Cahill could start on the Kluge's roof, he had to prepare lay a grid of 2x2 joists over the plywood and rebar paper. The job involves the underside of the deck and provides a place to attach the bundles.

Now, on a spring morning midway through the Kluge job, Cahill is carefully securing stems or eight bundles across the roof, with their cut ends down and their ties laid up with the slope. He explains that each rod also has to line up with its neighbor so that rain will shed evenly and not pool. Using forged iron hooks to hold the bundles in place, he lays a three-foot length of 1/4-inch stainless steel rod across them, every eight

inches or so, he loops a wire (anchored to the fork) over the rod. With a hook on a ratcheting handle, he turns the loop a few times, which pulls the rod tightly against the stems.

Next he picks up a short-handled tool called a rigger, and presses the reed firmly under the steel rods. As he moves methodically up to the ridge, each new layer compacts the deck tighter and tighter until it's as hard as a giant's arm. While doing one he groans at its firmness as a thoroughbred's coat on race day, Cahill professes a counter-obsession. "My favorite is to keep it simple," he says. "If you overdo it, it ruins every the cottage look."

For the final dressing, he uses the rigger and his hands to smooch the surface. Reed ends cover two of his fingertips, which have been sliced by the sharp reeds. "I ought to have stuck in Johnson & Johnson," he cracks as he heads back to his truck for another bundle. Each night, he sits down for half an hour or so with a pair of tweezers and plucks out splinters. But he refuses to use gloves. "I need to feel the material," he says.

Three days later, Cahill begins work on the peak, picking away beneath a patchwork of reed and short canons in the top layer of steel rods. The roof is covered with loose spars-pointed, water-soaked sticks twisted into the shape of a giant's staple. These are shoved through the reed and into the steel. Cahill returns a few weeks later to decorate the ridge with carved leaves from the Kluge's pond. Finally, he spans the roof with a diamond fire-resistant Trexed that way, but both house the same fire rating as ones with wood shingles.

In legend, a drinker will hate a small bottle of whiskey among the reeds, a little post for whoever replaces his work. On this roof, Cahill has substituted a few Irish ones. "I put them in a place where I know they'll find them," he says—although he figures no one will have a chance for about 25 years (in most climates, a finished roof will last half that time, in dry climates, double). In the meantime, the roof will need a gentle scraping with a soft wire brush every three years to remove surface debris, followed by another span of five minutes.

Ironically, when was once the roofing job pressurizes new customers precisely now. The Kluges paid \$24 a square foot to finish their little cottage, a price double that of most steel and tile. But a new wave of price to Bill and Kathy Kluge, who now own an authentic piece of handmade history. ■

A WEE BIT O' THATCH

Tipping a playhouse, gazebo, or garden shed with a splendorous thatched roof is a charming way to enjoy the aesthetics of thatch—without remodeling the steep price tag. William Cahill works with clients on small structures about 60 percent of the time. "It's my way of sharing the splendor of the material with the average person," he says. "The more jobs I can do, the more I can spread the craft."

For a garden house in Indiana, right, Cahill used full-length reed; a reed hat soaked back the number at yearlinging again. Thatcher Colin McGhee of Gloucestershire, Virginia, offers an array of mini-thatch designs through his Web site www.thatching.com, including a Tudor-style thatched dog kennel and an Irish-cottage mailbox. For that last-luck, Robinson Grosse look, try a reed-topped beech umbrella, custom-made by Scharf Thatch & Bunkers. —Stephen Anderson



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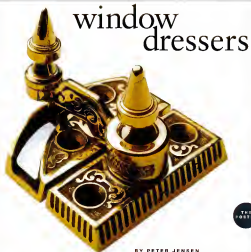
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The right advice can help keep small projects, well, small.



THE
POSTER

BY PETER JENSEN
PHOTOGRAPHS BY BRUCE WELLER

Compared to their predecessors, the windows we see today are symbols of high-tech, low-maintenance efficiency. Gone are the sailing catches or waddy gears to sliding, replaced by light, sleek, sliding units that need little more than occasional cleaning. But in the evolution of the window we've also outstripped a bit of beauty.

The locks and latches needed to secure, raise, and lower windows were celebrated both mechanical innovation and eye-appealing craftsmanship. By the Victorian age, plain loop-or-hook shapes had evolved into risqué, embossed reflections of the style of the times. Such locks became equally valuable, not only in appearance but also in the way they worked. (Like the proliferation of Victorian drawing-room designs, dozens of legends, patented mechanical gears and work. The work they did was simple, but those lifts and locks offered a bit of pleasure every time they were used.)

Today's windows come with hardware built for function, not looks. But plain fittings may be replaced with fine reproductions available from several manufacturers and mail-order companies. The result can turn an ordinary storefront—the wheels of a rising sun—into a work of art.

FIXING A WEIGHT-LOSS PROBLEM

ILLUSTRATION BY GREGORY NEMEC

SASH CHANNEL

PULLEY

PAINTING STRIP

SASH CORD OR CHAIN

SASH LOCK

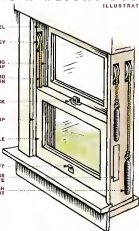
SASH STOP

SASH STYLE

SASH LIFT

ACCESS PLATE

SASH WEIGHT



When one of the sash cords breaks, a window simply won't stay put, but fixing this little problem is easy.

1. Pry off the sash stop, a strip of wood that holds the sash in the channel. Lift out the cord and the lockers and out of the groove in the sash stile.
2. Remove the wood painting strip that decorates the upper and lower windows. Find and remove the weight-pocket access plate near the bottom of the sash channel.
3. Replace the cord with new rope or a length of sash cord, running it up through the pulley and securing it to the top of the weight. Adjust the length of the cord so the weight hangs 2 to 3 inches above the sill when the sash is fully working in its raised position as possible without the cord or chain clear and in the groove in the sash stile.
4. Replace the painting strip, put the sash back in its groove, and move it up and down. If it works well, replace the access plate and the sash stop, then close to allow enough room for the sash to slide freely.

Oldies but Goodies

If the only kind of vintage window hardware you've ever seen has been rusty, paint-covered, and heaped unconcernedly in junk stores, then don't despair. Intricately detailed lifts and locks are available in many antique stores, and their lower cost—compared to top-quality reproductions—makes them a worthy find.

You may even find a range of period styles to choose from. Most of the hardware sold by Lenore Debus of Europa's Antique Hardware in Columbus, Georgia, has been salvaged from Victorian-era windows, but she also finds Arts & Crafts and Art Deco designs. "We take in equal quantities of cast iron, brass, and steel," says Debus. "Home Art Deco stuff is made of Bakelite, which has held up better than some of the metals."

Bringing back the old latch may require a quick dip in paint stripper and a buffing, but Debus says no problem. "If a pulley is a lot of pieces bolted because of the metal or of bolts, a buffing wheel can break it." To preserve a slide on beads, spray the piece with clear lacquer. If the metal is left unvarnished, Joseph's hands will do the polishing, preserving one of the great charms of old hardware: the patina that comes with age and use.

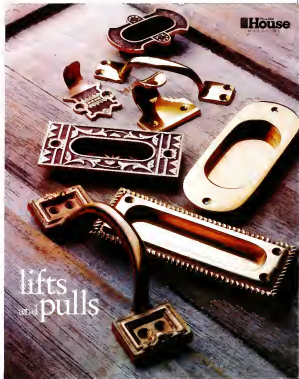


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... then I had breakfast."



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SPENDING IN THE GRASS p. 126-130

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SAVE THIS OLD HOUSE p. 158

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